



**Reliance Industries, LLC**

**Installation, Operation, Inspection and Maintenance  
Instructions for the Skyline™ Horizontal Lifeline System**

**6310**

**Portable Lifeline System using  
3/8 – 7x19 Steel Wire Rope with the Ratchet Tensioner and  
the Skyline™ Shock Absorber**

**Reliance Industries, LLC  
PO Box 140008  
Denver, CO 80214  
Ph. (800) 488-5751  
Ph. (303) 424-8650  
Fax (303) 424-8670**

**US Patent #6,338,399 and other Patents Pending**



## User Instructions

6310 Skyline™ Portable HLL System

Reliance Industries, LLC

### Important Instructions!

These instructions must be kept on file and available for the users reference at **all** times. The users must read and full understand these instructions or have the instructions explained in detail before using this equipment. **Failure to observe these instructions could result in serious injury or death.**

Prior to use, all workers must be trained in the proper use of all systems and equipment.

A Training and Instruction review should be repeated at regular intervals.

A rescue plan must be prepared; the workers must be trained in its use, and rescue equipment must be on hand prior to any use of this horizontal lifeline system.

Any questions regarding these instructions should be directed to:

Reliance Industries, LLC  
PO Box 140008  
Denver, CO 80214  
Ph. (800) 488-5751  
Ph. (303) 424-8650  
Fax (303) 424-8670



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# Important OSHA Regulations Covering the Use of Horizontal Lifeline Systems

OSHA 1910.66 Subpart M – 1926.502 (d)(8):

Horizontal Lifelines shall be designed, installed, and used under the supervision of a qualified person as part of a complete fall arrest system which maintains a safety factor of at least two.

OSHA 1910.66 (b):

“Qualified Person” means one with a recognized degree or professional certificate and extensive knowledge and experience in the subject field who is capable of design, analysis, evaluation, and specifications in the subject work, project, or product.

OSHA 1910.66 (b):

“Competent Person” means a person who is capable of identifying hazardous or dangerous conditions in the personal fall arrest system or any component thereof, as well as in their application and use with related equipment

OSHA 1910.66:

Personal fall arrest systems shall be rigged such that an employee can neither free-fall more than 6-ft. nor contact any lower surface.

OSHA 1910.66 (n):

The sag in the lifeline should be minimized to prevent the connecting piece of equipment (self-retracting lanyard or other appropriate personal fall arrest device) from sliding down the lifeline to a position which creates a swing hazard during a fall arrest.

OSHA Standards, Interpretations and Compliance Letters, 02/09/1995-Criteria for personal fall arrest systems:

The free-fall distance is limited to 6 feet. The deceleration distance must not exceed 42 inches; lifeline elongation is not included in deceleration distance; and the total fall distance is unregulated except that the employee cannot make contact with a lower level...The safety factor of two should be applied based on the anticipated maximum arrest force, not the fall energy.



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## System Description

The Skyline™ Horizontal Lifeline System #6310 is designed for use as a portable horizontal lifeline system, durable enough for use as a permanent lifeline, yet light enough to be moved to other work locations. It is constructed exclusively of 3/8 – 7x19 wire rope and is available in both carbon steel (IPS) and stainless steel versions. It is designed to enable the user to attach to end anchorages or erected stanchions in work areas where no overhead anchor points exist. The system, in general, is designed for use by up to 4 persons at the same time, and can span distances up to 200 ft. However, span length and number of persons on the system determine input energy (and therefore, final line tension) and not all combinations of span lengths and number of workers are possible. The user must consult the manufacturer for exact system parameters for each installation, or in the event that the system is moved. System parameters are provided in the form of computer generated load and Minimum Required Clearance (MRC) data that is traceable to our data and test results for each system installation.

The computer generated designs are prepared from verifiable test data and include a 2 ft. safety factor for Minimum Required Clearance, and a 2 to 1 Safety Factor over the minimum cable breaking strength for maximum allowable line tension.

This system design is predicated on the use of a full-body harness for the worker, double-action, single-locking snap hooks to attach to the lifeline, and a shock absorbing vertical lifeline or self-retracting lanyard (SRL) with 900 lb. maximum arrest force. Non-shock absorbing lanyards and retractables that do not have “slip-clutch” type internal shock absorbers with a 900 lb. maximum MAF are **NOT** allowed for use as vertical lifelines on this system. Any attachment to the horizontal lifeline must transfer fall arrest forces to the body through the dorsal d-ring of the full body harness only. Harness side and chest d-rings are not allowable lanyard connection points.

All Skyline™ HLL systems are supplied with an integral shock absorber in the line and no system may be used without one. The four main functions of the shock absorber are:

1. It adds energy capacity to the system to increase the safety of short horizontal lifelines.
2. It adds hysteresis (friction) to the system to absorb rebound energy.
3. It decreases low sag angle amplification by controllably elongating the horizontal lifeline.
4. It allows the cable to be tuned (or pre-loaded to a higher initial line tension) to force the cable to absorb energy at a higher rate.

The shock absorber has a built in spring-loaded tensioner that indicates when the proper pre-tension has been achieved. Normally the pre-tension is set at 1000-lb. but may be changed for specifically designed applications.

When a system is installed, the pre-tension must be set according to the installation instructions. Not all systems are perfectly rigid; therefore, pre-tension may change over time. Prior to each use, the worker must check the pre-tension of the system and adjust it accordingly. When the pre-tension of a system is closely controlled, the fall distance and final line tension are easily predictable. Knowing that the pre-



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tension of a horizontal lifeline is set correctly is of utmost importance to the predictability and safety of the system.

## Anchorage Points

The strength of horizontal lifeline anchorage points must be at least two times the anticipated line tension. This strength must be certified by a qualified person and must be verifiable by either calculation or testing. Anchorage connectors must be selected carefully. Eyebolts should not be used if they will be loaded at an angle to their axis, unless the loads fall within design parameters for such use. Weld-on lugs should not be less than ½ inch in width and should not be made of steel with less than 50,000-PSI yield strength. The proper stress areas and weld areas must be calculated to assure proper safety. If in question, consult Reliance Industries engineering staff for proper design requirements.

## Horizontal Lifeline System Components

The Skyline™ Horizontal Lifeline System #6310 consists of the following standard approved and compatible components:

- 1 ea. Model 6000 Skyline™ Shock Absorber (stainless steel)
- 1 ea. Model 6050 Steel In-Line Cable Clamp (zinc plated carbon steel)
- 5 ea. Model 6062 ½” bow shackles (stainless steel)
- 1 ea. Model 6090 3” Ratchet Assembly
- 1 ea. Model 6092 10’ Ratchet Strap

To complete the Skyline™ Horizontal Lifeline System, a Reliance Industries wire rope assembly must also be used. Wire rope assemblies are constructed of 3/8-in. wire rope and have a thimble/eye swaged on one end and are brazed and ground to prevent unwinding on the opposite end. There are two types of wire rope assemblies available:

- 1 ea. Model 6070-length in feet; 3/8-in.- 7x19 galvanized wire rope
- 1 ea. Model 6072-length in feet; 3/8-in.- 7x19 stainless steel wire rope

NOTE: Only Reliance Industries wire rope assemblies may be used with the Skyline™ Horizontal Lifeline; failure to use a Reliance Industries wire rope assembly could result in serious injury or death.

The Skyline™ Horizontal Lifeline System #6310 may be used with a variety of Reliance Industries End Stanchions and Bypass Stanchions. This list includes, but is not limited to:

- Model 6155 60-in. End Stanchion, 2-in. square steel tube
- Model 6174 72-in. End Stanchion, 2-in. square steel tube
- Model 6159 84-in. End Stanchion, 2-in. square steel tube
- Model 6152 60-in. Bypass Stanchion, 2-in. square steel tube



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- Model 6176 72-in. Bypass Stanchion, 2-in. square steel tube
- Model 6153 84-in. Bypass Stanchion, 2-in. square steel tube
- Model 6200 End Stanchions for Concrete Rebar
- Model 6240 Horizontal Lifeline Anchor Clamps for steel I-Beams
- Model 3092 Anchor Clamp with swivel d-ring and footrest for HLL for steel I-Beams
- Model 3093 Anchor Clamp with swivel d-ring HLL anchor for steel I-beams
- Model 6158 Weld-on Lugs
- Model 6095 and 6096 Choker straps for beams and columns
- Reliance Industries Custom End and Bypass Stanchion for special applications

These End and Bypass Stanchions may be used interchangeably with the #6310 Portable Horizontal Lifeline System provided the structures that they are attached to are rated at least **TWICE** the anticipated line tension of the horizontal lifeline during fall arrest as required by OSHA. This line tension increase as more men use the horizontal lifeline (the Minimum Required Clearance also increases as more men attach to it) so the end anchorages must be certified for the load they would see with the maximum number of men using the system, up to 4 men. For some systems with small clearances below the walking/working surface it may not be possible for 4 persons to use the system at the same time. For questions concerning the maximum number of men that may use a horizontal lifeline simultaneously, or alternate ways of setting a system up, please call Reliance Industries Engineering at (303) 424-8650.

The actual selection of components and options for the design of a horizontal lifeline system should only be performed by a Qualified Person, or a state registered Professional Engineer who is experienced in the design and use of safety systems.

The Skyline™ Horizontal Lifeline system is designed for use with the approved, above listed components only. Substitutions or replacements with non-approved components will endanger the system integrity and may affect the safety and reliability of the total system.

## Personal Fall Arrest Equipment Used with Horizontal Lifelines

It is of utmost importance in the design of horizontal lifelines to be able to predict the vertical fall arrest forces that will be imposed on a lifeline during a fall. Normally the lifeline will elongate under increasing tension until the horizontal lifeline imposes a 900-lbf. Vertical force on the shock absorbing lanyard and then the lanyard will begin to rip out (or extend in the case of a SRL) until all of the fall energy has been absorbed. For multiple persons this force increases as a multiple of 900-lbs. The shock-absorbing lanyard, therefore, is vital in predicting and limiting horizontal lifeline tension. Only shock absorbing lanyards (or SRLs) with 900 lb. maximum arrest force are allowed for use with this system.

Care should also be used in selecting harnesses for use with horizontal lifeline systems. Due to the HLL sag height, additional distance required for clearance when using horizontal lifeline systems is often the limiting factor in determining whether a HLL system can be used for a particular application. Harnesses with sewn down back pads can limit as much as 1 ft. of back pad slippage during fall arrest, giving additional clearance for safety. If the system will be used where a worker could encounter a head first



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free-fall, a non-secured back pad can slide down the webbing to the small of the back, allowing the worker to fall out of the harness through the top by allowing the harness straps to slip over the shoulders. For this reason, we recommend the use of full body, crossover or pullover type harness with sewn down back pads for all installations.

## Installation Layout Considerations

Most HLL installations consist of either single-span or multi-span systems. Single-span systems consist of two end anchorages with a single HLL lifeline attached between them. Multi-span systems consist of two end anchorages and multiple intermediate (bypass) supports through which the cable passes, but which it is not attached. Normally the bypasses consist of a structure that will allow a lanyard snap to pass through without allowing the cable to become disconnected. Input energy into an HLL system during fall arrest is usually determined by span length. The longer the span, the farther a person will fall during fall arrest and therefore, the greater the input energy. The more people that fall on a system at one time, the greater the falling weight and this also increases the input energy. In order to limit input energy into a system, one must limit the number of persons on a system and also limit the span length. On the other hand, the cable, having the greatest energy capacity (or ability to absorb energy) of all the components of a system due to its ability to strain under stress, must be long in order to absorb the greatest amount of energy. Therefore, the safest way to rig and assemble a horizontal lifeline system is to use the longest cable length possible with bypass supports located to reduce sub-span length to as short as possible. Only minimum required clearance limits (MRC) should be used to determine maximum allowable line length.

## Installation

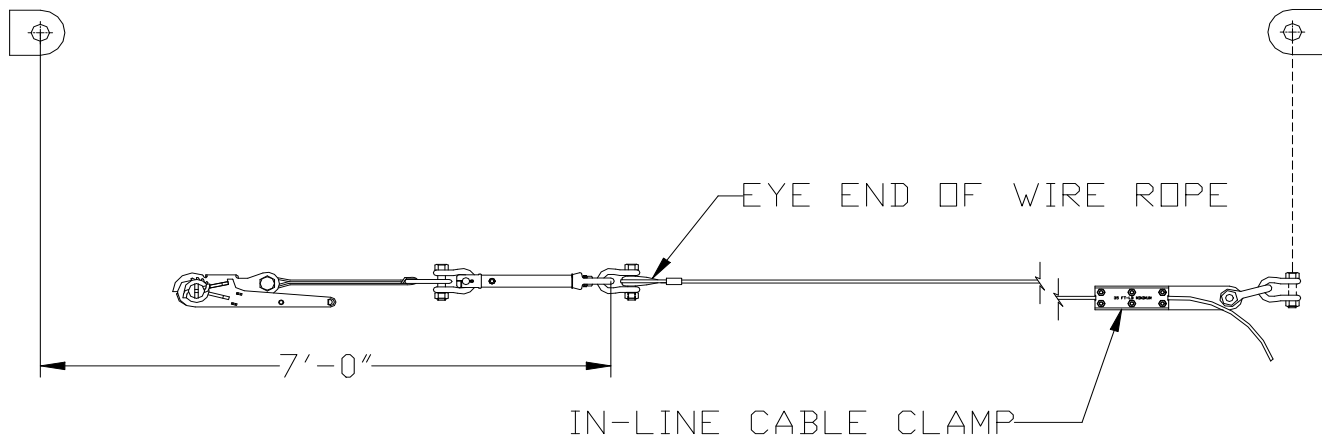
Installation of horizontal lifeline systems should be done under the supervision of a Qualified Person trained in their function and use. Use only parts that have been qualified as compatible components by Reliance Industries. Install the system only as specified in the system parameter documents prepared by the computer program system. Ensure that the minimum anchorage strength is at least 2 times the anticipated load called out in the system parameter documents. Have the anchorages certified by a qualified person and keep documentation on hand. HLL calculations for minimum required clearance (MRC) are measured below the walking/working surface and assume that the horizontal lifeline is at least 5 ft. above the walking/working surface (unless otherwise specified) in order to limit free-fall to 6 ft. or less as required by OSHA. Always install lifelines horizontally where all end anchorages and bypass supports are at the same elevation. Always install the system per the system parameter documents and NEVER change span length, sub-span length, or number of people allowed on the system. Remember, horizontal lifeline dynamics change with any changes to span length, or number of people allowed on the system. Any changes require a new design, and MUST be approved by a qualified person.



## HLL Installation Procedures

**NOTE:** Approved fall protection must be worn during Skyline™ lifeline installation at all times. Do not use the horizontal lifeline or its anchorages as personal fall protection anchorages until the system has been completely installed, inspected, and approved for use by a Qualified Person.

1. Installation of the Skyline™ horizontal lifeline begins with the placement of the end anchorages. Follow the “Installation Instructions” for the specific end anchorage for your system. Once the end anchorages have been installed per the manufacturers’ or Qualified Persons’ instructions, inspect the supports for soundness and stiffness. Verify that the anchorages will support at least 2 times the anticipated load.
2. If using bypass stanchions and receivers, install according to the prepared lifeline diagram following the “Installation Instructions” for the bypass stanchion.
3. Layout the cable on a flat surface near where the lifeline will be installed (at the base of the columns or walls where the stanchions will be installed) and remove all bends. Inspect cable for crush spots, broken wires, weld strikes, or any other deformity that may affect the integrity of the cable. Damaged cables must be removed from service immediately.



**Figure 3**

(Weld-on Anchorage lugs are shown in this figure to represent the attachment points for the HLL, however, any approved end anchorage point may be used.)

4. Position the eye end of the wire rope so that it is about 7-ft. (see Figure 3) away from the location of one of the end anchorage locations.
5. Locate the spot on the wire rope on the other end (opposite of the eye end) where it would attach directly to the end anchorage point. Mark this location. If using the choker straps, hold the straps outward and pull tightly before locating the wire rope and marking.
6. Remove the 6 bolts and lock washers from the top plate of the In-line cable clamp. Set the top plate aside.

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7. On the mark you have measured off, place the wire rope into the grooved lower plate of the In-line cable clamp. Insure that the end of the cable clamp with the hole in it is placed towards the free end of the wire rope.
8. Twist the wire rope and press down into the grooves of the clamp. The wire rope may have to be twisted and untwisted for it to align properly.
9. Place the top plate onto the lower plate, and begin tightening the bolts. Tighten the top plate **EVENLY** to 35 ft-lb. For more detailed information on using the In-Line Cable Clamp, please refer to the “In-Line Cable Clamp Instruction Manual”.
10. Attach the bolt of one ½” bow shackle through the hole of the In-line Cable Clamp. Tighten the nut and secure in place with the cotter pin.
11. Insert a second ½” bow shackle through the bow of the shackle attached to the In-line Cable Clamp. Using the shackle bolt, attach the bow shackle to the hole of the end anchor point. Replace the nut and cotter pin.
12. Attach one ½” bow shackle through the triangular d-ring of the 10’ long ratchet strap, and the eye of the wire rope. Tighten the bow shackle nut and secure with the cotter pin.
13. Insert a ½” bow shackle through the eye of the Skyline™ shock absorber and the hole of the second stanchion. Secure the bolt with the nut and replace the cotter pin.
14. Remove the clevis pin of the Skyline™ shock absorber and insert one ½-in. bow shackle. Replace the clevis pin and cotter pin.
15. Remove the nut from the bow shackle (just attached to the clevis of the shock absorber) and attach to the triangular d-ring of the ratchet load binder. Replace the clevis pin and cotter pin.

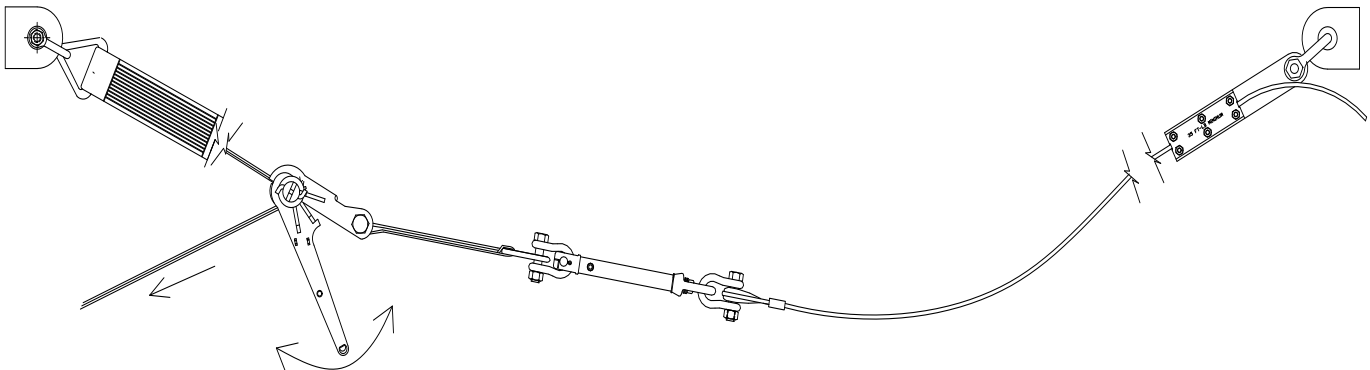


Figure 4

16. Begin lifting the horizontal lifeline cable assembly to its intended position (see Figure 4). If bypass stanchions are being used, the cable must be placed through the center of the bypass fittings before the cable is properly tensioned. Pass the free end of the ratchet strap into the slot of the ratchet. Pull the free end of the ratchet strap to help remove slack from the lifeline cable.
17. While holding the ratchet strap tight, begin tensioning the lifeline, using the ratchet handle.

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18. Tighten the ratchet load binder until the line tension just releases the load-indicating washer of the shock absorber to spin free. This washer is located just under the eye of the shock absorber (see Figure 5). A freely spinning washer indicates that the cable has been pre-tensioned to 1000 lbf.

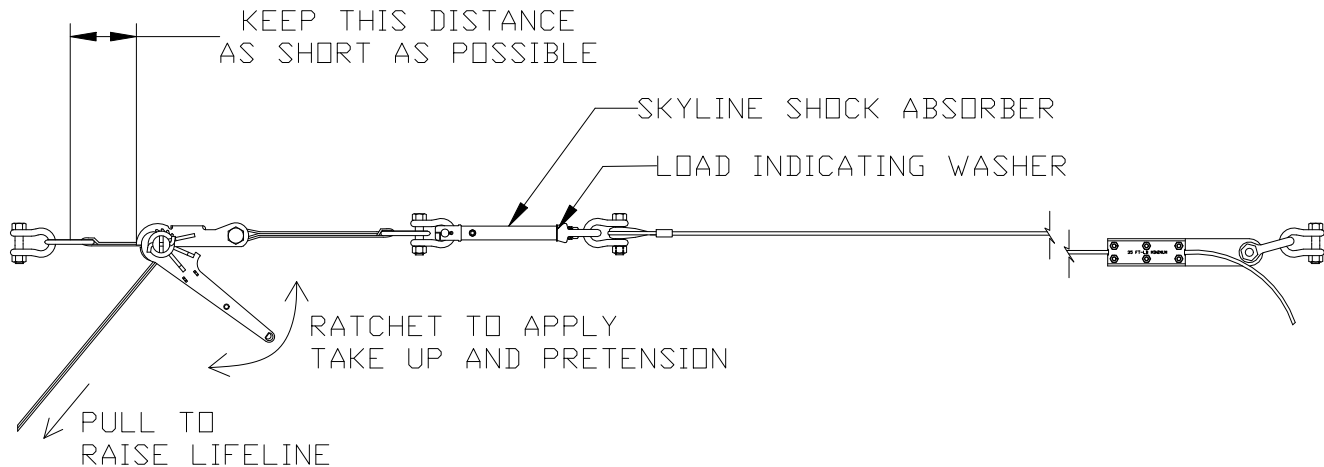


Figure 5

19. Check that the webbing of the ratchet strap has made at least one complete revolution on its mandrel before the correct line tension has been reached. If it has not made a full revolution, release the tension, let 3" to 4" of the ratchet strap to slip back out of the load binder and retighten. The strap should now make at least one full revolution before the lifeline is properly tensioned. At least one full revolution is necessary for the tensioner to overcome the maximum load with out slipping.
20. Inspect the installation for any defects, such as missing parts, damage, proper anchorage strengths and configuration, proper pre-tensioning, proper cable alignment, proper elevation, defective or non-compatible components. DO NOT authorize system use if any defects or discrepancies are found. Check system installation parameters with system installation parameter documents to assure that the correct installation has been performed.
21. Once the system passes all checks by the competent person, the system may be approved for use, and labeled with a permanent identification tag referencing the following information:
- Identification number that will tie the lifeline to the correct computer generated design documents that identify the original design parameters.
  - Date of installation.
  - Total authorized span length and sub-span length.
  - Total number of people allowed on the system at one time.
  - The minimum required clearance (MRC) below the walking/working surface.
  - The anticipated maximum line tension.
  - The required cable pre-tension (normally 1000-lbs.)
22. A separate tag should also be added indicating date of last inspection by the competent person.



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## Training

It is the responsibility of the employer to train all workers prior to using this system (per OSHA 1926.503 (a)(1)). The employer shall provide a training program for each employee who might be exposed to fall hazards. The program shall enable each employee to recognize the hazards of falling and shall train each employee in the procedures to be followed in order to minimize these hazards.

The employer shall assure that, as necessary, each employee has been trained by a competent person qualified in the following areas:

- a. OSHA regulations governing the use of horizontal lifelines.
- b. Ability to recognize potential fall and workplace hazards.
- c. Method of inspection of safety equipment.
- d. Rescue procedures.
- e. Installation and removal techniques.

## Planning for Rescue

Prior to system use, a rescue plan must be prepared, the workers must be trained in its use, and the rescue equipment must be on hand to implement it in case of a fall.

Typical rescue plans include (but are not limited to) the following items:

1. List of equipment that must be readily accessible in the event of an emergency and the names of those workers certified to use or operate that equipment.
2. Emergency contact phone numbers (ambulance, hospital, fire department...) and a means to contact them (cell phone, emergency radio).
3. List of employees on the site, and the specific tasks they will perform to effect the rescue.

Qualified Persons trained in rescue planning and implementation should only undertake the design and installation of horizontal lifeline systems. It is of the utmost importance to identify a method of rescue from a horizontal lifeline after a fall has occurred, and have the means to effect the rescue on hand. In some situations it may be possible to use the horizontal lifeline itself as an anchorage capable of use for rescue. However, in some situations, it is possible that the horizontal lifeline will come to rest at a level below the walking/working surface making it impossible to be used as a suitable anchorage for rescue. For this reason, always install rescue anchorages to rigid structures for attaching hoists or other retrieval equipment at locations that can be reached by rescue personnel. Note whether rescue must be up or down. If you rescue upward, anchorages must be high enough to raise the fallen worker above the walking/working surface. Individuals who will be using the horizontal lifeline must be trained in the rescue plan and have the equipment on hand to implement it in an emergency. In case a worker has been



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injured or is unconscious, always consider the evacuation method and path to be used after the worker has been retrieved.

Contact Reliance Industries Engineering for help in identifying possible methods of rescue and rescue planning.

## Inspection

Prior to each use, the worker must inspect the system for any physical damage, wear, corrosion, or malfunctioning parts. Check the shock absorber for deployment by looking to see if the black slide bearing under the shock absorber eye is exposed. Once the shock absorber is deployed, its energy capacity is used up, and it cannot be reset. If the shock absorber deploys, the entire system has seen a fall arrest load and must be removed from service until it is inspected by a competent person who either replaces or repairs and re-certifies the components for use on the system. Once deployed, shock absorbers are not re-usable, and must be replaced. If an inspection reveals a problem or unsafe condition, remove the entire system from service until it can be re-certified by a competent person.

The worker, who must also check the pre-tension prior to each use, must inspect all system components. A formal inspection must be carried out a minimum of once each year, and be formally documented and kept on file with the system parameter documents.

## Servicing

A qualified person trained in the inspection and servicing of system components must carry out servicing of this system. The company's safety officer should maintain a record log of all servicing and inspection dates. The system and all components must be withdrawn from service if subjected to fall arrest forces. Those components may be returned to service only after being certified by a qualified person. Only original Reliance Industries equipment replacement parts are approved for use in this system. Contact Reliance Industries Engineering with questions and when in need of assistance.

## Warnings and Limitations

Proper care should always be taken to visually scan the work area prior to use. Remove any obstruction, debris, and other materials from, and beneath the work area that could cause injuries or interfere with the operation of this system. Be cautious of swing fall hazards if working horizontally to the side of the lifeline. Always use the shortest lanyard length possible to connect to the lifeline. Be aware of the movements of others on the lifeline at the same time, knowing that if they fall, the sudden motion in the lifeline could pull others off balance. When working at a fixed area, tie off to other suitable overhead anchorages if they exist, allowing the lifeline to be occupied by fewer people.



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Users should be familiar with pertinent regulations governing the use of this system and its components. Only trained and competent personnel should install and supervise the use of this system.

Do not exceed manufacturers' recommended span length or maximum number of people on the same lifeline as listed on either the tag attached to the specific horizontal lifeline system, or in the lifeline parameter data sheets.

Do not use these components with any other horizontal lifeline material. Only 3/8 – 7x19 IPS or stainless steel wire rope is allowed, due to its high-energy capacity.

Use only Reliance Industries supplied or qualified compatible components.

**If you have any questions regarding the correct installation or use of this product DO NOT USE. Call Reliance Industries, LLC Engineering at Ph. (303) 424-8650 or Fax (303) 424-8670.**

# Inspection Log for HLL Systems

Company: \_\_\_\_\_ Location: \_\_\_\_\_ Date: \_\_\_\_\_  
 Job Site: \_\_\_\_\_ HLL Log No.: \_\_\_\_\_ System No.: \_\_\_\_\_

Is this system used as described in the HLL Log No. \_\_\_\_\_ to conform to design document criteria? \_\_\_\_\_

Describe non-conforming conditions in the boxes below:

Inspection Criteria	Missing Parts	Labels Readable	Corrosion	Deformed Parts	Cracked Parts/ Broken wires	Excessive Loading
HLL Identity Tag?						
HLL Shock Absorber Label?						
HLL Shock Absorber?						
Rigging Screw?						
End fittings?(combo clamp, etc.)						
Shackles?						
Wire Rope?						
Webbing Strap?						
Ratchet Tensioner?						
Load Rings?						
Anchorage Lugs?						
Bolted Anchor Clamps?						
Stanchions?						
Stanchion Receivers?						
Tie Back Straps?						

Is Shock Absorber pre-tension set correctly? \_\_\_\_\_

Has a Rescue Plan been prepared? \_\_\_\_\_

Is Rescue Equipment on hand? \_\_\_\_\_

Have workers been trained in the Rescue Procedures and been given a copy of the Rescue Plan? \_\_\_\_\_

# Skyline™ Horizontal Lifeline Diagram

