Safehold
HEIGHT SAFETY & LIFTING GEAR

Horizontal Rope Lifeline Instruction Manual SH HLLR 31604

Read and understand instructions before using this equipment
Do not throw instructions away.

NOTE: For declarations of conformity see page 19.
Designed in the UK

SHUM-035 Iss 01

Contents

ABOUT & WARNING

The SafeHold Rope Temporary Horizontal Lifeline

This manual covers all variants within the lifeline range.

Warning : Working at height is a very dangerous activity which may lead to severe injury or fatality. We advise that you personally assume the responsibility to learn and use the safety measures that apply to this equipment. Remember that there is no better "instruction" than that of a trained instructor. Train in the use of this device, verify that you have fully understood how it works and if in any doubt, please ask a competent person!

Don't make any alterations or additions to the equipment without the manufacturer's prior written consent.

The products shall not be used outside of its limitations, or for any purpose other than that for which it is intended.

It is essential for the safety of the user that if the product is re-sold outside of the UK, the reseller shall provide instructions for use, for maintenance, for periodic examination and for repair in the language of the country in which the product is to be used.

If there is reason to doubt your fitness to safely absorb the shock from a fall arrest, please consult your doctor. Age and fitness seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use it.

This personal protective equipment is designed and used as part of a fall protection system to protect users against falls from heights in working areas and is meant to be used with other certificated components.

User must read, understand and observe these instructions for use.

Risk Statement

The horizontal lifeline is designed to protect against falls from height of up to four users by providing an anchorage for the attachment of PPE, in addition it is also able to prevent falls from height by providing an anchorage point for a restraint or work positioning system. The removable ratchet handle significantly reduces the risk of the system being tampered with. The energy absorber reduces peak forces transmitted during a fall to the anchorage structure.

Applicable Safety Standards

When used in accordance with the instructions for use, this product meets all requirements of harmonised standard EN795:2012 Type B (single user) as declared by EU-type examination (Module B) certificate.

In addition, this product has been independently assessed to meet the requirements of EN 795:2012 Type C (for 1 user) and PD CEN/TS 16415:2013 Type B & C (for 4 users), although this is outside of the Module B certification. Applicable standards and regulations depend on the type of work being done, and also might include further local regulations if applicable. Consult regulatory agencies for more information on personal fall arrest systems and associated components.

DESCRIPTION

SKU	31604
Material	Polyester Rope
Standards	EN795:2012 Type B PD CEN/TS16415:2013 Type B & C
Max. user weight	100kg including clothes and equipment
Max. number of people	4
Max length	30m

APPLICATIONS & USING THE LIFELINE

Personal Fall Arrest:

Rope HLL may be used to support a MAXIMUM 4 Personal Fall Arrest System (PFAS) for use in Fall Arrest applications. Maximum free fall is 1.8m, or up to 3.6m if used in combination with equipment explicitly certified for such use. When the Rope HLL is to be used as part of a fall arrest system the user must be equipped with a means of limiting the maximum dynamic forces exerted on the user during the arrest of a fall to a maximum of 6kN. During a fall, the rope will stretch and is designed to reduce peak loads to anchorage structures, thereby increasing the length of the anchorage line. Extra care and consideration should be taken when determining the suitability of other types of fall protection systems which may be affected by the deployment of the integrated lifeline energy absorber.

Restraint:

Rope HLL may be used in Restraint applications. Restraint systems prevent workers from reaching the leading edge of a fall hazard. Always account for fully deployed length of lanyard/SRL. No free fall is permitted. Restraint systems may only be used on surfaces with slopes up to 4/12 (vertical/horizontal).

WARNING !

The Competent Person must ensure that there are sufficiently strong and accessible anchorage points in the working environment. Anchorages should be overhead when possible and the area beneath and around them should be clear of obstruction and sharp edges. Always attach to an anchorage that is as close to the point of work and as high above head as possible without restricting free movement. The user should be aware at all times of which attachment points to use; if not immediate obvious they must seek confirmation from the Competent Person. Always ensure that the means of attachment to the anchorage is secure before beginning work.

Use of equipment in unintended applications may result in seriousinjury or death. Maximum 1 attachment per connection point.

For use in personal fall protection systems only. NEVER use Rope HLL for material handling/lifting.

LIMITATIONS

Capacity:

User weight range (including all clothing, tools, and equipment) is 59-100 kg per worker if used for 4 users. This can be increased if total users are reduced and a MAX total load of 400kg is NOT exceeded.

Structures, anchorage and connectors to which Rope HLL is attached must be capable of withstanding a minimum load of 25kN at each extremity for 4 users

Maximum load that could be transmitted in service from the anchorage connector to the structure: 12.5kN with all 4 users fulled loaded.

If system is derated to 2 x users and a MAX of 200kg extremity anchor minimium load can be reduced to 22kN.

Maximum load that could be transmitted in service from the anchorage connector to the structure: 11kN with all 2 users fulled loaded.

Loading of the structure will be in-line/parallel with the Rope HLL lifeline.

Anchorage Connectors

SafeHold equipment is designed for use with SafeHold approved components and subsystems only. Non-approved components or subsystems may jeopardise the compatibility of equipment and may affect the complete system. Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 22kN or 5000lbs. Non-compatible connectors may unintentionally disengage.

Connecting component limitations:

A competent person must ensure the compatibility of all connections and that of the system.

If any other component in the system does not operate properly or if any connector does not lock, do not use the system.

Do not use if any part of the system appears to be damaged.

All connector gates must withstand minimum loads of 25kN / 5500 lbs.

This life line is suitable for use with;

Connectors in accordance with EN362 that meet the min load.

Full Body Harnesses in accordance with EN361 Safehold Fall Arrest Blocks in accordance with EN360

Anchor slings in accordance with EN795

Minimum Breaking Load of 22kN.

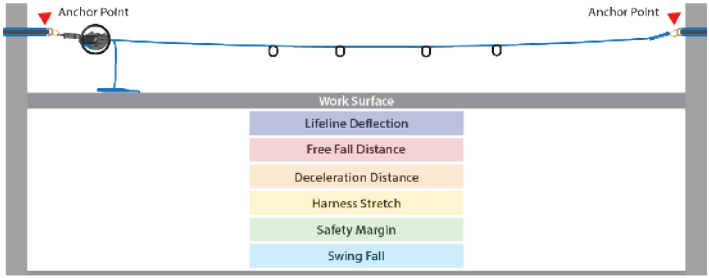
LIMITATIONS

Fall Clearance: There must be sufficient clearance below the work surface to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 1m safety factor, deceleration distance, user height, length of lanyard/SRL, harness stretch, free fall, and all other applicable factors.

Diagram shown is an example fall clearance calculation ONLY.

For Quick Calculations a MAX of 12% of Span can be assumed. (rounded)

Swing Falls: Prior to installation or use, make considerations for eliminating or minimising all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. Always work as close to in line with the anchor point as possible. Swing falls significantly increase the likelihood of serious injury or death in the event of a fall.



DEFLECTION

Deflection at min span length		Deflection at max span length	
1 user:0.5m	3 user:0.98	1 user:2.88m	3 user:3.24
2 user:0.77m	4 user:1.0m	2 user:3.06m	4 user:3.50m

The Rope HLL is recommended for use with the following products. Please contact SAFEHOLD with questions relating to product compatibility.

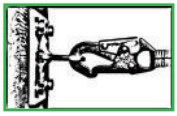
• Retractable type fall arrester compliant with EN360:2002. • Shock absorbing lanyard compliant with EN355:2002 (& EN354:2010 if applicable). • Restraint lanyard compliant with EN354:2010 (& EN358:2018 if applicable). • Anchor systems compliant with EN795:2012. • Work Positioning devices compliant with EN358:2018. • Harnesses compliant with EN361:2002.

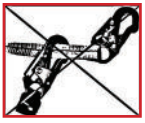
COMPATIBILITY

Compatibility: When making connections with Rope HLL, eliminate all possibility of roll-out. Roll-out occurs when interference between a hook and the attachment point causes the hook gate to unintentionally open and release. All connections must be selected and deemed compatible with Rope HLL by a Competent Person. All hooks must be EN 362:2004 approved. See the following for highlights of compatible/ incompatible connections:

Warning!: If the user weighs between 100kg-140kg, check all PPE equipment in the personal fall arrest system for use in fall arrest, restraint or work positioning is rated to the increased max user weight up to 140kg for the relevant standards as listed on this page.

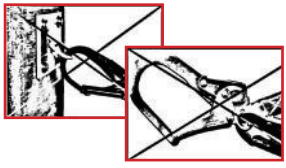
Connector closed and locked in D-ring. OK.





Connector on to integral lanyard. NO.

Incompatible or irregular connection, which may increase risk of roll-out. NO.



Connector direct on to webbing. NO.

Two connectors to same Anchor. NO.

Two or more snap hooks or carabiners connected to each other. NO.

PRODUCT SPECIFICATION

Rope Horizontal Lifeline - Technical Sales Sheet: 35

Product Code: 31604

Standards: EN795:2012 Type C
CEN/TS16415:2013

Product Features

- For use in fall arrest and fall restraint
- Ergonomic tensioner wheel
- No tools necessary for set up
- Tensioner and locking mechanism in one integrated body allowing system to be tensioned from one side.
- Kernmantle Rope
- Easy connect O rings
- Double lock carabiner
- Comes with kit bag
- Integrated load indicator
- RFID options available
- Comes with two anchor straps

Product Specification

- Maximum working length: 30m
- Maximum number of users: 4
- User capacity: 100kg
- Rope Material: polyester
- Connector/ratchet material: zinc plated steel
- Rope diameter: 16mm
- System weight: 9kg

CE UK CA RiConnect

Prior to Installation:

Ensure the area beneath and around you are free from obstructions. Check the anchors are in the most elevated position and free from damage. If in any doubt DO NOT USE. See advice from a competent person.

ONLY use approved SAFEHOLD products. The use of unapproved devices may impair the system performance and safety.

INSTALLATION & SAFE USE

1. Rope HLL should only be installed horizontally and NOT at any other angle.

2. Ensure you have checked the area beneath has sufficient clear fall distance.

3. Determine correct system length (maximum 30m) and anchor point installation locations. Anchor points should be directly across from each other, so that Rope HLL will be completely level and not slope in any way once installed and should be as high as possible.

4. Install Anchor Straps around suitable structural anchors locations, as determined by a Competent Person. Note: it is also permitted to connect the Rope HLL to anchorage connectors other than the Anchor Straps, but you must ensure the anchorage connectors are deemed compatible with Rope HLL by Competent Person.

Loosen thumb screw and open release gate to free spool rope to desired length. Connect tensioner and free end to approved structure. Observe rope direction is correct. Re-install side plate.

Pull handtight any slack from the rope and until system is taught. Then close the release gate and tighten thumb screw to ensure device is secure and locked..

Release arm closed.

Tension using the hand wheel until the pulley slips and the **Green** Line is visable in the tension indicator slot. Once tension is acheived the system will stay locked until released in reverse order of set up.

Only connect to the approved acnhor rings to avoid damage to rope. Approved pulleys is possible to create 3D systems and enhanced protection and coverage. Seek advice and confirmation from Safehold.

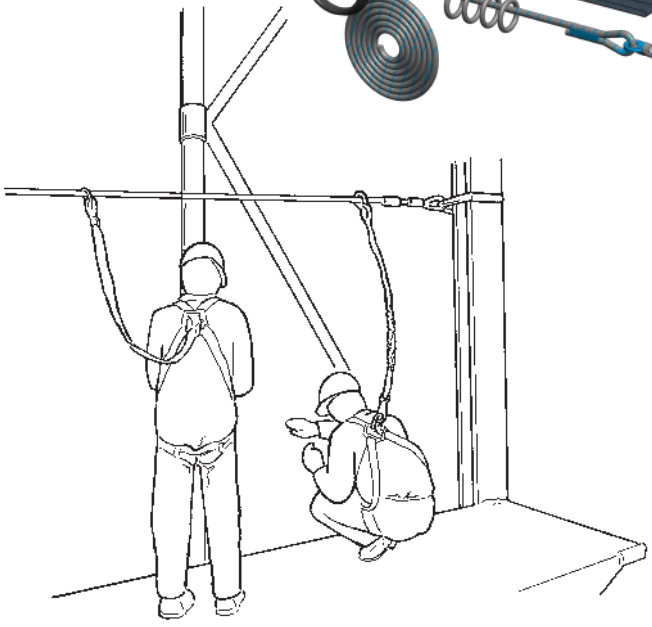
Simply reverse the procedure to uninstall system, ensure hands and fingers are away from wheel when relese arm is unlocked.

CAUTION! DO NOT ATTEMPT TO ADD TENSION VIA ANY EXTENDED LEVER. IF INDICATOR IS DAMAGED OR IN RED DO NOT USE.

INSTALLATION & SAFE USE

System components

Storage Bag, 2 x anchor straps, 30m Rope lifeline and RVT tensioner. 4 x connection rings.



MAINTENANCE, SERVICING & STORAGE

Cleaning: Ensure the Rope Lifeline is kept free of excess paint, grease, dirt or other contaminants as this may cause the damage to the device. Use a mild detergent and water to clean the anchor sling and allow to dry naturally. A clean fall arrest device is easier to inspect and will prolong its life.

DO NOT use heat to dry.

Storage: Store in a clean dry place away from hazards such as chemicals, sharp objects, moisture, direct sunlight and heat.

The anchor sling must ALWAYS be stored with its instructions and record card. Never leave the anchor sling lying around on a site.

Servicing: The Rope Lifeline is a non-serviceable item and must be destroyed and disposed of when it fails ANY inspection. The steel components can be safety recycled and the webbing can be returned to Safehold for energy recovery. The equipment could still be misused and we do promote safe and sustainable disposal only. Always keep a record of disposal.

Disposal: Dispose of the Anchor sling if it has been subjected to fall arrest forces or inspection reveals an unsafe or defective condition.

Before disposing of the Anchor sling, cut the webbing in multiple places to eliminate the possibility of inadvertent reuse.

After a Fall: If a fall event occurs, tag the lanyard as "UNUSABLE", remove it from service, and store it separately. Remove from service any unit that has been subjected to fall arrest forces or that exhibits damage consistent with such forces.

Notes:

1. Failure of a worker to perform (before each use) inspection or failure of an inspection by a worker shall initiate the requirement for inspection by a competent person.
2. Failure of a competent person to perform inspections as specified in this Table, or failure of an inspection by the competent person shall initiate product disposal.
3. Determination of the type of use category shall be determined by a competent person.

MAINTENANCE, SERVICING & STORAGE

Product Life:

The functional life of a lifeline is 5 years from the first date of use provided all checks are passed as per this manual. Ropes can be changed to increase total device service life. The lifespan can be affected by, and not limited to, conditions of use, storage, maintenance, environment and gularity of use. HSE guidelines in INDG367 must be adhered to.

APPLICATIONS

Purpose:

This product is part of a personal fall arrest, restraint, work positioning, suspension, or rescue system.

Lifelines are designed for use in applications where falls could occur.

A personal fall arrest system (PFAS) is typically composed of an anchorage or lifeline and a full body harness (SHBH), with a connecting device, i.e. a shock absorbing lanyard (SHFAL), or a self-retracting device (SRL/RTFA) or a restraint lanyard (SHRL) attached to the dorsal D-ring of the SHBH.

Lifelines MUST be used in conjunction with a harness and approved connecting device.

DO NOT USE UNAPPROVED DEVICES TO CONNECT TO THIS LIFELINE.

A suitable rescue plan must be made in case of a fall and made available to everyone on site.

STANDARDS

The EU type-examination (Module B) and conformity assessment procedure (Module D) were conducted CCQS Certification Services Limited, Block 1 Blanchardstown Corporate Park, Ballycoolin Road, Blanchardstown, Dublin 15 D15 AKK1, Ireland (NB2834).

The products are compliant with Personal Protective Equipment (PPE) regulation (EU) 2016/425, the Regulation 2016/425 on personal protective equipment as brought into UK law and amended, and the following standards.

The Safehold Lifeline and Anchor range has been designed to meet the requirements of EN795:2012 as a minimum. The EU declaration of conformity is accompanying each product.

SAFEY NOTICE & WARNINGS!

Failure to understand and comply with safety regulations could result in serious injury or death.

Equipment Handling: Please refrain from altering or misusing any equipment.

Workplace Assessment: A Competent Person must evaluate workplace conditions, which may include but are not limited to factors like high temperatures, corrosive chemicals, electrical hazards, sharp objects, machinery, uneven surfaces, UV exposure, and adverse weather conditions. These conditions could potentially impact the performance and lifespan of safety equipment.

Fall Hazard Analysis: Before selecting fall protection equipment, a Competent Person should anticipate where workers will be performing their tasks, the routes they will take, and any existing or potential fall hazards in the area.

Equipment Selection: All fall protection equipment should be purchased new and in unused condition. The choice of equipment should be made by a Competent Person, taking into account all possible hazardous workplace conditions.

Installation and Compliance: Fall protection systems must be selected, installed, and used under the supervision of a Competent Person while adhering to federal, state, and safety regulations. The forces applied to anchors should be calculated by a Competent Person.

Harness and Connector Compatibility: Harnesses and connectors must conform to the manufacturer's instructions and be of compatible size and configuration. Snap hooks, karabiners, and other connectors should be selected and used in a compatible manner, ensuring there is no risk of disengagement.

Rescue Planning: A project-specific rescue procedure in case of a fall is mandatory. It should allow employees to rescue themselves or provide an alternative means for prompt rescue. Rescue equipment should be stored in an easily accessible and clearly marked location.

Training Requirements: A Competent Person should provide training for Authorised Persons on the correct erection, disassembly, inspection, maintenance, storage, and usage of equipment. Training must also cover fall hazard recognition, hazard minimization, and the proper use of personal fall arrest systems.

Prohibited Uses: Never use fall protection equipment for hanging, lifting, supporting, or hoisting tools or equipment unless it is explicitly certified for such purposes.

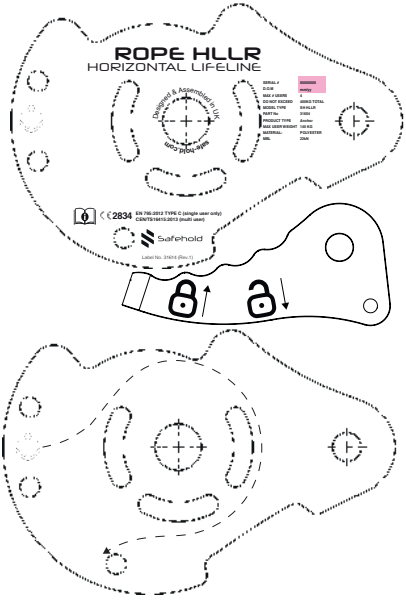
Equipment Inspection: Any equipment exposed to fall arrest forces should be immediately taken out of service.

Worker Considerations: Age, fitness, and health conditions can significantly impact a worker's ability to withstand fall arrest forces or properly use equipment. Consult a doctor if there are doubts about a user's suitability for such work, especially in the case of pregnant women and minors.

Post-Fall Suspension: Even if fall safety equipment functions correctly, there is still a risk of injury. Sustained post-fall suspension can lead to serious harm or death. To mitigate this risk, use trauma relief straps to reduce the effects of suspension trauma.

LABELS

See below for a typical Rope HLL label. All labels on the device must be present and fully legible.



ROPE HLLR HORIZONTAL LIFELINE WARNING!	PART No: SH-HLLR-027	SERIAL #:	DOM:	Length: 30m
Safehold www.safe-hold.com Designed & Assembled in UK	Read and understand instructions before use, remove from service if worn, damaged or excessively soiled. This rope is only compatible with the Safehold HLLR Modules Material: Polyester 16mm Double Braid MBL: 22kN. EN795 Type C CEN/TS16415:2013			Compliance: EN 795:2012 CE 2834 MAX 4 USER 100KG (400KG)

SERVICE LOG

Safehold LTD **www.safe-hold.com**

Model #: **User:**

Serial No: **Date of first use:**

Date of manufacture: ☐ **Pass** ☐ **Fail**

Date	Results/Condition:	Inspected by:	Next Inspection Date:

Component	Inspection:	User	Competent Person
Rope/ Webbing	Ensure rope and webbing are free from cuts, abrasion, wear and tear and deployment.		
	Check the webbing and rope for distortion resulting from loading.		
	Melted rope or any other signs of either heat or chemical exposure		
Sewing / thread	Any loose / damaged / uneven threads		
Labelling	Ensure all labelling is legible and undamaged		
Associated Equipment	Aditional Fall protection equipment that is used with the product is installed and inspected as per manufacturers instructions		
If the product fails the inspection proceedure remove from service immediatly. Clearly tag the product "DO NOT USE" in the event of failure.			

Comments:

EU DECLARATION OF CONFORMITY

This declaration of conformity is issued under the sole responsibility of the manufacturer: **SAFEHOLD LTD***:* 1-3 Eaves Court Bonham Drive, Sittingbourne, ME10 3RY.
compliance@safe-hold.com +44 (0) 3330 152 552
Model No. 31604

Product Code	Description
31604	SH HLLR-01 Temporary Rope Lifeline Kit 30m

The EU type-examination (Module B) and conformity assessment procedure (Module D) were conducted CCQS Certification Services Limited, Block 1 Blanchardstown Corporate Park, Ballycoolin Road, Blanchardstown, Dublin 15 D15 AKK1, Ireland (NB2834).

We hereby declare that the above referenced product, to which this declaration relates, is in conformity with the provisions of:
PPE Regulation 2016/425 - Standard EN EN795:2012 TypeB/C

PD CEN/TS16415:2013 Type B & C

SAFEHOLD LTD.

2834

Name: ***Oliver Auston*** **Position:** ***CEO*** **Date:** ***01/06/2024***

Safehold

HEIGHT SAFETY & LIFTING GEAR

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