



WRANGLERTM

USER INSTRUCTION MANUAL
HORIZON 4 MAN TEMPORARY HORIZONTAL
ROPE ANCHORAGE LINE

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODEL:

AFA940010

CE
EN 795:2012 Type C
TS 16415:2013 Type C

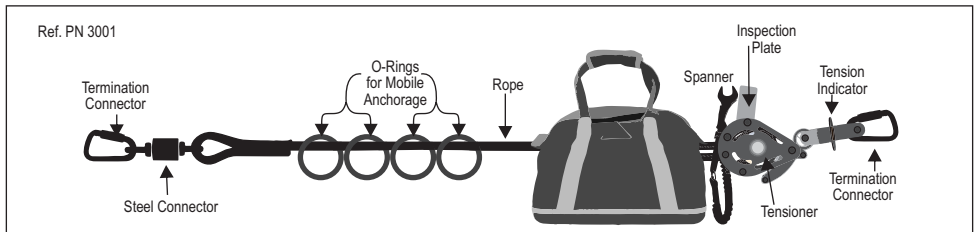
Please read and understand the manufacturer's instructions for each component or part of the complete system. Manufacturer's instructions must be followed for proper use, care, and maintenance of this product. These instructions must be retained and be kept available for the worker's reference at all times. Alterations or misuse of this product, or failure to follow instructions, may result in serious injury or death.

Note: The user is advised to keep this user instructions document for the life of the product.

1. **INTRODUCTION:** This manual must be read and understood in its entirety, and used as a part of an employee training program as required by OSHA or any applicable state agency.

This and any other included instructions must be made available to the user of the equipment. The user must understand how to safely and effectively use the 4-Person Rope HLL, and all fall safety equipment used in combination with the 4-Person Rope HLL.

2. **APPLICABLE SAFETY STANDARDS:** When used according to instruction specifications, this product meets or exceeds EN 795:2012 Type C and TS 16415:2013 TYPE C standards for fall protection. Applicable standards and regulations depend on the type of work being done, and also might include state-specific regulations. Consult regulatory agencies for more information on personal fall arrest systems and associated components.



3. **APPLICATION:** Easy to carry and install, the Horizon 4 Man Temporary Horizontal Lifeline provides a suitable and safe anchorage horizontally along the entire length.

- **Personal Fall Arrest:** This lifeline must be used to support a MAXIMUM 4 Personal Fall Arrest Systems for use in Fall Arrest applications.
- **Restraint:** 4-Person 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/Retractable Block. No free fall is permitted.
- **For All Applications:** worker weight capacity range (including all clothing, tools, and equipment) is 40-100 kgs.
- **Simultaneous use in Fall Arrest and Restraint is not recommended.**

4. **WORKER CLASSIFICATIONS:**

- **Qualified Person:** A person with an accredited degree or certification, and with extensive experience or sufficient professional standing, who is considered proficient in planning and reviewing the conformity of fall protection and rescue systems
- **Competent Person:** A highly trained and experienced person who is ASSIGNED BY THE EMPLOYER to be responsible for all elements of a fall safety program, including, but not limited to, its regulation, management, and application. A person who is proficient in identifying existing and predictable fall hazards, and who has the authority to stop work in order to eliminate hazards.
- **Authorized Person:** A person who is assigned by their employer to work around or be subject to potential or existing fall hazards
- **It is the responsibility of a Qualified or Competent person to supervise the job site and ensure all applicable safety regulations are complied with.**

5. INSPECTION:

- Prior to EACH use, inspect the lifeline for deficiencies, including, but not limited to, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint buildup, excessive heating, alteration, broken stitching, fraying, birdcaging, and missing or illegible labels. IMMEDIATELY remove the lifeline from service if defects or damage are found, or if exposed to forces of fall arrest.
- Ensure that applicable work area is free of all damage, including, but not limited to, debris, rot, rust, decay, cracking, and hazardous materials. Ensure that selected work area will support the application-specific minimum loads set forth in this instruction manual. Work area MUST be stable.
- At least every 6 months, a competent person other than the user must inspect the lifeline and record data in the inspection grid of the label. The grid must also be signed, with the mention of month and year of inspection.
- During inspection, consider all applications and hazards the lifeline has been subjected to.
- Equipment must be inspected for defects, including, but not limited to, the absence of required labels or markings, improper form/fit/function, evidence of cracks, sharp edges, deformation, corrosion, excessive heating, alteration, excessive wear, fraying, knotting, abrasion, and absence of parts.
- Equipment that fails inspection in any way must immediately be removed from use, or repaired by an entity approved by the manufacturer.
- Equipment subjected to forces of fall arrest must immediately be removed from use. Snap hooks, karabiners, and other connectors must be selected and applied in a compatible fashion. All risk of disengagement must be eliminated. All snap hooks and karabiners must be self-locking and self-closing, and must never be connected to each other.

6. PRECAUTIONS:

- Ensure the Medical condition of the user does not affect his safety in normal and emergency use.
- Age, fitness, and health conditions can seriously affect the worker should a fall occur. Consult a doctor if there is any reason to doubt a user's ability to withstand and safely absorb fall arrest forces or perform set-up of equipment.
- Pregnant women and minors must not use this equipment. Physical harm may still occur even if fall safety equipment functions correctly. Sustained post-fall suspension may result in serious injury or death. Use trauma relief straps to reduce the effects of suspension trauma. Allowable individual worker weight limit (including all equipment), unless explicitly stated otherwise, is 40-100 kgs
- The equipment shall only be used by a person trained and competent in its safe use.
- A pre-planned rescue procedure in the case of a fall is required. The rescue plan must be project specific. The rescue plan must allow employees to rescue themselves, or provide an alternative means for their prompt rescue.
- Store rescue equipment in an easily accessible and clearly marked area.
- It is essential to verify free space required beneath the user at work place before each occasion of use so that in case of a fall there will be no collision with ground or other obstacle in the fall path.
- The analysis of the workplace must anticipate where workers will be performing their duties, the routes they will take to reach their work, and the potential and existing fall hazards they may be exposed to. Fall protection equipment must be chosen by a Competent Person. Selections must account for all potential hazardous workplace conditions. All fall protection equipment should be purchased new and in an unused condition.
- Fall protection systems must be designed in a manner compliant with all federal, state, and safety regulations.
- Forces applied to anchors must be calculated by a Competent Person.
- Harnesses and connectors selected must be compliant with manufacturer's instructions, and must be of compatible size and configuration.
- Training of Authorized Persons to correctly erect, disassemble, inspect, maintain, store, and use the equipment must be provided by a Competent Person.

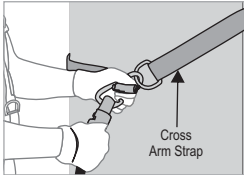
7. IMPORTANT BEFORE INSTALLATION AND USE: Prior to use, plan your system:

- Ensure all personal fall arrest system equipment is selected and deemed compatible by a Competent Person.
- Installation, set-up, and use of HLL system must be done under the supervision of a Qualified Person.
- Determine desired location for HLL; ensure location is free of debris, rot, decay, cracking, and hazardous materials.
- Eliminate or minimize all risk of swing fall.
- Prior to EACH use, all equipment in a fall protection system must be inspected for any potential or existing deficiencies that may result in its failure or reduced functionality. IMMEDIATELY remove equipment from service if any deficiencies are found.

8. RECOMMENDED MAXIMUM USERS: 4 users

9. INSTALLATION OF TEMPORARY HORIZONTAL LIFELINE AFA940010:

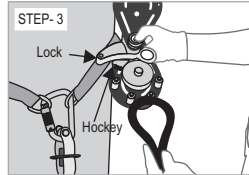
Anchorage strength of the structure: The receiving structure onto which lifeline is to be installed must be strong enough to hold the load more than 18kN.



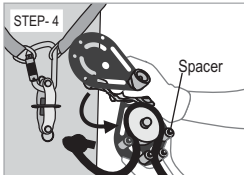
With the help of a karabiner attached to the thimble eye of lifeline, connect the rope to a suitable anchorage point. (In case of any unavailability of anchor point, it is recommended to use KStrong Cross Arm Strap to create one.



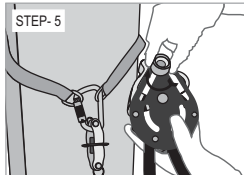
Loosen the knob to slide open the housing cover plate.



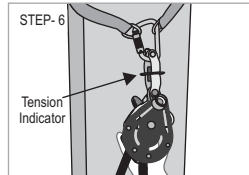
Pull back the Hockey and Lock Body so as to create adequate gap to insert rope around the pulley. Please refer the image for the direction of rope insertion.



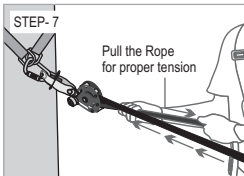
Slide back the cover plate and ensure that hole on cover plates matches with the spacer on the fixed cover plate.



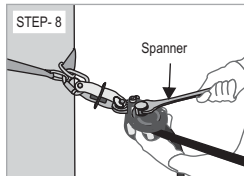
Once aligned, re-tighten the knob to the fullest to hold the cover plates in position.



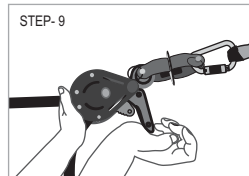
Now connect the tensioner to the second anchorage point along with tension indicator by attaching a karabiner to the hockey eye of tension indicator.



Pull the initial slack of rope by hand and ensure that rope is seated properly in the groove of pulley.



Use an open end spanner of 24mm provided along with tensioner to give appropriate tension to the lifeline. Plate of Tension indicator will start to rotate freely once the required tension has been achieved in lifeline. Now, O rings/ pass through carriages can be used as mobile anchors for the workers.



Now lifeline may be taken off from the anchorage.

After uninstallation, inspect the entire lifeline for any evidence of damage, wear, corrosion on tensioner body and separation of rope fibers.

NOTE:

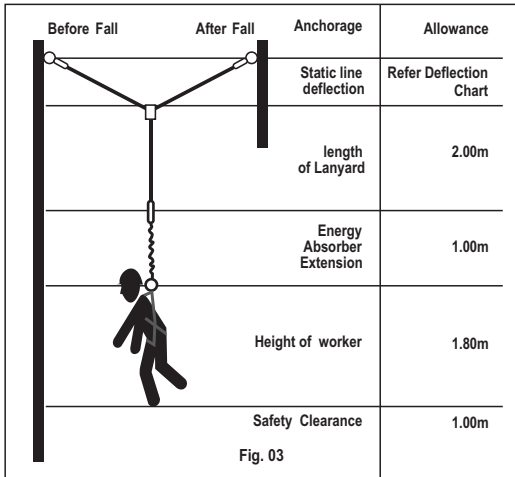
AFA940010 is provided with steel O-Rings to be used as mobile anchor for the workers to get connected to the lifeline permanently.

10. ANCHORAGE STRUCTURE: Structure must withstand loads applied in the directions permitted by the system of at least 18 kN.

11. LIMITATIONS:

- **Fall Clearance:** There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 1 mtr. safety factor, deceleration distance, user height, length of Lanyard/Retractable Block, and all other applicable factors as shown in fig. 03.
- **Swing Falls:** Prior to installation or use, make considerations for eliminating or minimizing 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.
- **Compatibility:** When making connections with this lifeline, 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 this lifeline by a Competent Person.
- Workplace conditions, including, but not limited to, flame, corrosive chemicals, electrical shock, sharp objects, machinery, abrasive substances, weather conditions, and uneven surfaces, must be assessed by a Competent Person before fall protection equipment is selected.
- Fall protection systems must be selected and installed under the supervision of a Competent Person, and used in a compliant manner.

12. IMPORTANT TECHNICAL INFORMATION: The Horizontal Anchor Line and the anchor points need to be above the user's head, Horizontal anchor line is intended for use on span upto 25 ms. for a fall of up to 4 users, with anchor line fitted on spans of 5ms. to 25 ms., the typical peak line deflection from the original position are stated in table below.



TABLE

Deflection Chart				
Span Length	Users			
	1	2	3	4
5 mtrs	1.18	1.31	1.18	1.18
6 mtrs	1.32	1.47	1.33	1.33
7 mtrs	1.47	1.64	1.47	1.47
8 mtrs	1.61	1.80	1.62	1.62
9 mtrs	1.75	1.96	1.77	1.77
10 mtrs	1.89	2.12	1.92	1.92
11 mtrs	2.04	2.29	2.06	2.06
12 mtrs	2.18	2.45	2.21	2.21
13 mtrs	2.32	2.61	2.36	2.36
14 mtrs	2.46	2.77	2.50	2.50
15 mtrs	2.61	2.94	2.65	2.65
16 mtrs	2.75	3.10	2.80	2.80
17 mtrs	2.89	3.26	2.94	2.94
18 mtrs	3.03	3.42	3.09	3.09
19 mtrs	3.18	3.59	3.24	3.24
20 mtrs	3.32	3.75	3.39	3.39
21 mtrs	3.46	3.91	3.53	3.53
22 mtrs	3.60	4.07	3.68	3.68
23 mtrs	3.75	4.24	3.83	3.83
24 mtrs	3.89	4.40	3.97	3.97
25 mtrs	4.03	4.56	4.12	4.12

13. REPAIR: If the product becomes damaged, it will NOT provide the optimum level of protection, and therefore should be immediately removed from service. It needs to be inspected to see if it is replaced or repaired. Never use the damaged product. Repair is only permitted by the manufacturer or a nominated repair centre or individual approved by the manufacturer.

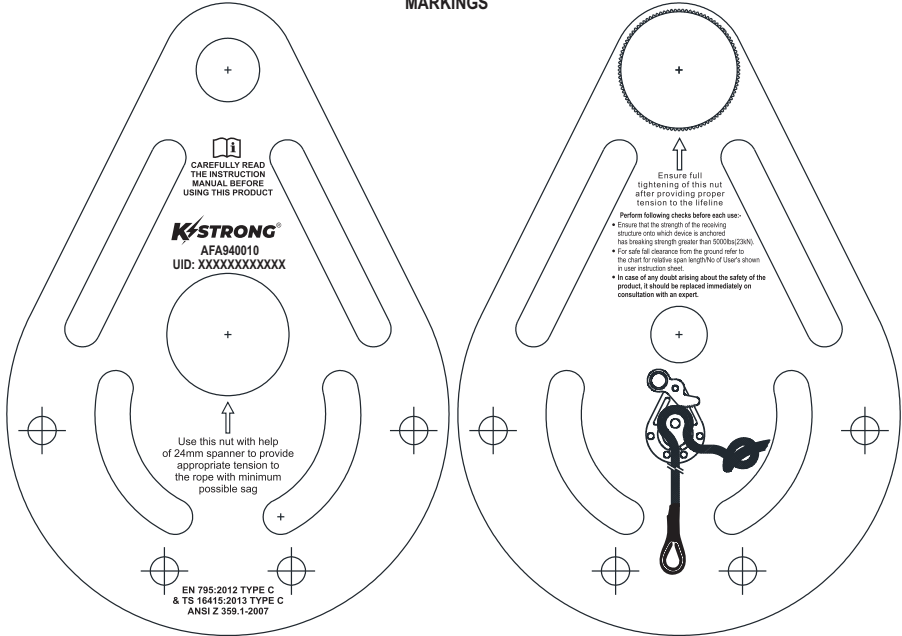
14. MAINTENANCE, CLEANING, AND STORAGE:

- Repairs to this product can only be made by a by a competent person or an entity authorized by manufacturer. If a 4-Person Rope HLL fails inspection in any way, immediately remove it from service, and contact manufacturer to inquire about its return or repair.
- Cleaning after use is important for maintaining the safety and longevity of the product.
- Remove all dirt, corrosives, and contaminants from the product before and after each use. If the product cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean 4-Person Rope HLL with corrosive substances.
- When not in use, store equipment where it will not be affected by heat, light, excessive moisture, chemicals, or other degrading elements.
- Maintenance of equipment must be done according to manufacturer's instructions. Equipment instructions must be retained for reference.

14. WARNING:

- DO NOT ALTER OR MISUSE THE EQUIPMENT.
- Failure to understand and comply with safety regulations may result in serious injury or death. Regulations included herein are not all inclusive, are for reference only, and are not intended to replace a Competent Person's judgment or knowledge of federal or state standards.
- Use of equipment in unintended applications may result in serious injury or death. Maximum 1 attachment per connection point.
- NEVER use fall protection equipment of any kind to hang, lift, support, or hoist tools or equipment, unless explicitly certified for such use.

MARKINGS



INSPECTION PLATE

 	 4-PERSON TEMPORARY HORIZONTAL LIFELINE	EN 795:2012 Type C & TS16415:2013 Type C Read user instructions carefully before each use. Product Code: AFA940010 Product Description: Temporary Horizontal Lifeline UID: XXXXXXXXXX Mfg. Date: MM/YYYY Maximum Span Length: 25ft/8m Minimum Breaking Strength: 23kN K-Strong Inc. 150 N. Radnor Chester Road Suite F200 Radnor, Pennsylvania 19087 United States	 <small>Inspection - Before every use, user must inspect the product. Every 3 months a competent person must complete final inspection of the product and record findings.</small>
	SPECIFICATIONS: Maximum capacity: Four person with a maximum weight of 100kg (each person), when used as a temporary horizontal Lifeline for a personal fall arrest or restraint system. Material of construction: Tensioner Aluminum Alloy and Stainless steel. This device meets EN 795:2012 Type C & TS16415:2013 Type C requirements for use as an anchorage connector.	WARNING: READ CAREFULLY BEFORE USING Manufacturer's Instructions supplied with this product at the time of shipment must be followed for proper use, maintenance and inspection. Use only with CE Certified approved personal fall arrest or restraint systems. Alteration or misuse of this product or failure to follow instructions may result in serious injury or death. DO NOT REMOVE THIS LABEL.	

LIFESPAN: The estimated product Lifespan is 10 years from the date of manufacture. The following factors can reduce the Lifespan of the product: intense use, contact with chemical substances, specially aggressive environments, extreme temperature exposure, UV exposure, abrasions, cuts, violent impacts, bad use or maintenance.

DISCLAIMER: Prior to use, the end user must read and understand the manufacturer's instructions supplied with this product at the time of shipment and seek training from their employer's trained personnel on the proper usage of the product. Manufacturer is not liable or responsible for any loss, damage or injury caused or incurred by any person on grounds of improper usage or installation of this product.

EQUIPMENT RECORD				
Product				
Model & type/identification		Trade Name		Identification number
Manufacturer		Address		Tel, email into use
Year of manufacture		Purchase Date		Date first put into use
Other relevant information (eg. document number)				
PERIODIC EXAMINATION AND REPAIR HISTORY				
Date	Reason for entry (periodic examination or repair)	Defects noted, repairs carried out and other relevant information	Name and signature of competent person	Periodic examination next due date

Certification Body :

SATRA Technology Europe Ltd, Bracetown Business Park, Clonee, Dublin D15 YN2P Ireland (Notified Body 2777)

Ongoing Assessment Body:

SGS Fimko Oy, Takomotie 8, FI-00380 Helsinki, Finland (Notified Body 0598)

For EU Declaration, please visit <https://kstrong.com/asia/eu-declaration-form/>



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