



User Instruction Manual Synthetic Rope Horizontal Lifeline System

This manual is intended to be used as part of an employee training program as required by OSHA.

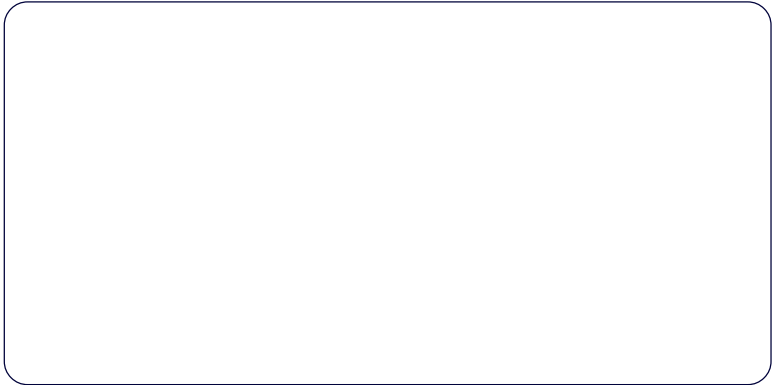
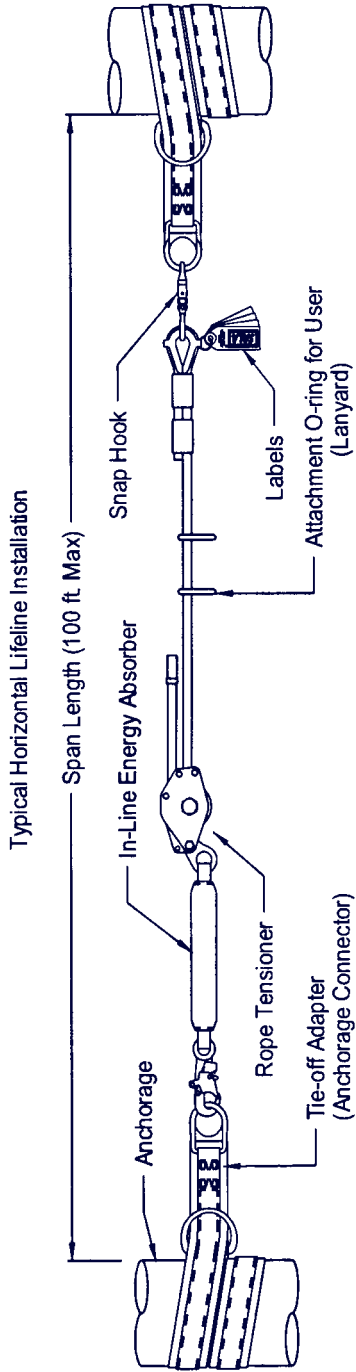


Figure 1



WARNING: *This product is part of a personal fall arrest system. The user must follow the manufacturer's instructions for each component of the system. These instructions must be provided to the user of this equipment. The user must read and understand these instructions before using this equipment. Manufacturer's instructions must be followed for proper use and maintenance of this equipment. Alterations or misuse of this equipment, or failure to follow instructions, may result in serious injury or death.*

IMPORTANT: *If you have questions on the use, care, or suitability of this equipment for your application, contact DBI/SALA.*

IMPORTANT: *Record the product identification information from the ID label in the inspection and maintenance log in section 9.0 of this manual.*

1.0 APPLICATION

1.1 PURPOSE: The Sayflite Synthetic Rope Horizontal Lifeline System is designed for use as an anchoring means for one or two persons. Use the Sayflite Horizontal Lifeline System where horizontal mobility and fall protection are required.

1.2 LIMITATIONS: The following limits apply to the installation and use of the Sayflite Synthetic Rope Horizontal Lifeline System. Other limitations may apply:

IMPORTANT: *OSHA regulations state that horizontal lifelines shall be installed and used under the supervision of a qualified person (see below for definition) as part of a complete personal fall arrest system that maintains a safety factor of at least two.*

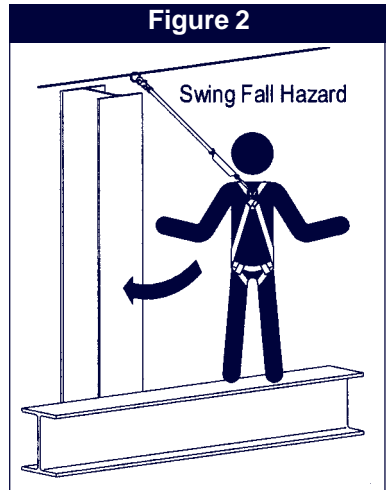
Qualified Person: *An individual with a recognized degree or professional certificate, and extensive knowledge and experience in the subject field, who is capable of design, analysis, evaluation, and specification in the subject work, project, or product. Refer to OSHA 1910.66, 1926.32, and 1926.502.*

- A. HORIZONTAL LIFELINE SPAN:** The maximum span distance is 100 feet. The span length must be reduced when clearance is limited. See section 3.0 for clearance information.
- B. ANCHORAGES:** The Sayflite horizontal lifeline must be installed on anchorages that meet the requirements specified in section 2.4.
- C. SYSTEM CAPACITY:** The maximum capacity of the Sayflite horizontal lifeline is two persons. The maximum weight of each person, including tools and clothing, is 310 lbs.
- D. CONNECTING SUBSYSTEM:** Each person's connecting

subsystem must limit fall arrest forces to 900 lbs. or less. See section 2.5.

- E. **FREE FALL:** Rig and use the personal fall arrest system such that the maximum potential free fall does not exceed Government regulatory and subsystem manufacturer's requirements. See section 3.0 and subsystem manufacturer's Instructions for more information.

- F. **SWING FALLS:** See Figure 2. Swing falls occur when the anchorage point is not directly overhead. The force of striking an object in a swing fall may cause serious injury or death. Minimize swing falls by working as directly below the anchorage point as possible. Do not permit a swing fall if injury could occur. Swing falls will significantly increase the clearance required when a self retracting lifeline or other variable length connecting subsystem is used. If a swing fall situation exists in your application, contact DBI/SALA before proceeding.



- G. **FALL CLEARANCE:** There must be sufficient clearance below the worker to arrest a fall before striking the lower level or obstruction. See section 3.0 for required clearance information.
- H. **BODY SUPPORT:** A full body harness must be used with the Synthetic Rope Horizontal Lifeline System.
- I. **ENVIRONMENTAL HAZARDS:** Use of this equipment in areas with environmental hazards may require additional precautions to reduce the possibility of injury to the user or damage to the equipment. Hazards may include, but are not limited to; heat, chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges. Contact DBI/SALA if you have questions about using this equipment where environmental hazards exist.
- J. **TRAINING:** This equipment must be installed and used by persons trained in its correct application and use. See section 4.0.

1.3 APPLICABLE STANDARDS: Refer to national standards, including ANSI Z359.1, ANSI A10.14, local, state, and federal (OSHA 1910.66 and 1926.502) requirements for more information on personal fall arrest systems and associated components.

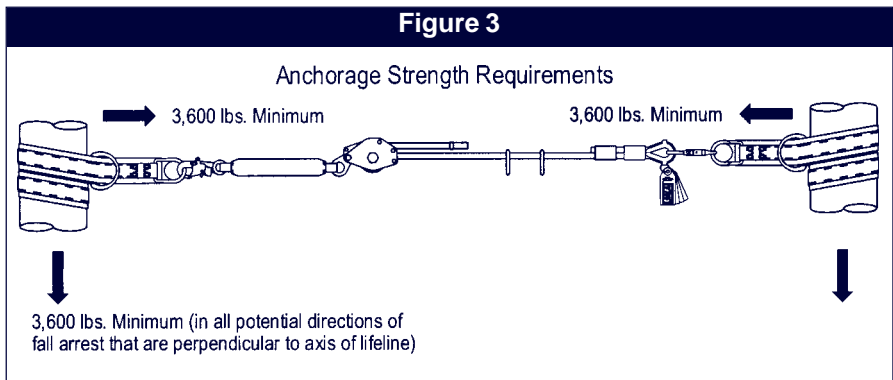
2.0 SYSTEM REQUIREMENTS

2.1 PERSONAL FALL ARREST SYSTEM COMPONENTS: The Sayflite horizontal lifeline must be used with DBI/SALA approved components and subsystems. Non-approved components may be incompatible, and could affect the safety and reliability of the complete system. Personal fall arrest components used with this system must meet all applicable OSHA and ANSI requirements. A full body harness must be used with this system.

2.2 PERSONAL FALL ARREST SYSTEM CONNECTORS: Connectors used to attach to the attachment O-ring on the horizontal lifeline (hooks, carabiners, D-rings) must support at least 5,000 lbs. Connectors and attachment elements must be compatible in size, shape, and strength. Non-compatible connectors may unintentionally disengage (roll-out). Do not use non-locking connectors with this system.

2.3 ANCHORAGE CONNECTORS: Connectors used to attach the horizontal lifeline to end anchors must be compatible with the connection point. The connection must be positive; and, with connecting elements, capable of sustaining a 5,000 lbs. load without failure.

2.4 STRUCTURE LOAD: Structural anchorage points must be rigid, and capable of supporting at least 3,600 lbs. along the axis of the horizontal lifeline. Anchorages must also support at least 3,600 lbs. applied in all potential directions of fall arrest that are perpendicular to the axis of the horizontal lifeline. See Figure 3.



WARNING: Anchorages must be rigid. Large deformations of the anchorage will affect system performance, and may increase the required fall clearance below the system, which could result in serious injury or death.

2.5 CONNECTING SUBSYSTEM: The connecting subsystem is the portion of the personal fall arrest system that connects the horizontal lifeline subsystem and harness fall arrest attachment element. The connecting subsystem must limit forces applied to the horizontal lifeline to 900 lbs. or less.

3.0 OPERATION AND USE

WARNING: Do not alter or intentionally misuse this equipment. Consult DBI/SALA when using this equipment in combination with components or subsystems other than those described in this manual. Some subsystem and component combinations may interfere with the operation of this equipment. Use caution when using this equipment around moving machinery, electrical hazards, chemical hazards, and sharp edges.

WARNING: Consult your doctor if there is reason to doubt your fitness to absorb the impact from a fall arrest. Age and fitness can affect your ability to withstand fall arrest forces. Pregnant women and minors must not use this system.

3.1 BEFORE EACH USE inspect this equipment according to section 5.0. Do not use this equipment if inspection reveals an unsafe or defective condition. Plan your use of the fall protection system prior to exposing workers to dangerous situations. Consider all factors affecting your safety before using this system.

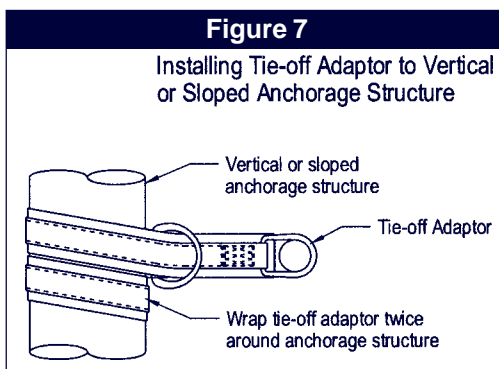
- A.** Read and understand all manufacturer's instructions for each component of the personal fall arrest system. All DBI/SALA harnesses and connecting subsystems are supplied with separate user instructions. Keep all instructions for future reference.
- B.** Review sections 1.0 and 2.0 to ensure system limitations and other requirements have been adhered to. Review applicable information regarding system clearance criteria, and ensure changes have not been made to the system installation (i.e. length) or occurred at the job site that could affect the required fall clearance. Do not use the system if changes are required.

3.2 SYSTEM INSTALLATION: Figure 1 shows a typical Sayline horizontal lifeline installation. When using an energy absorbing lanyard to connect to the system, the end anchorages must be located at a height which will limit the free fall to six (6) feet. When using a self

retracting lifeline (SRL) to connect to the system, the end anchorages must be located above the user. The SRL, when fully retracted, must be above the harness attachment level. The horizontal lifeline system should be positioned at a level that will minimize free fall while allowing ease of use. The horizontal lifeline should be positioned near the work location to minimize swing fall hazards. The connecting subsystem length should be kept as short as possible to reduce the potential free fall and required clearance distance. Both anchorages must be installed at approximately the same elevation, so that the horizontal lifeline system is not sloped more than five (5) degrees.

Step 1. Determine the locations of the end anchorages and evaluate their strengths in accordance with section 2.4. Determine the span length and evaluate the required clearance using Figures 4, 5, or 6 and Tables 1, 2 or 3.

Step 2. Install the anchorage connectors. Some Sayflite horizontal lifeline systems include two tie-off adaptor anchorage connectors. To ensure the



tie-off adaptor does not slide down a vertical or sloped anchorage, the tie-off adaptor must be wrapped twice around the structure as shown in Figure 7. Refer to the tie-off adaptor instructions for complete installation information. The horizontal lifeline may be secured directly to the anchorage when the anchorage incorporates a compatible attachment element that meets the requirements specified in section 2.3.

Step 3. Secure each end of the horizontal lifeline to the anchorage connectors with the snap hook or carabiner. Loosen and reposition the rope tensioner as required.

Step 4. Remove the slack from the horizontal lifeline by pulling the rope through the tensioner by hand. To tension the horizontal lifeline, using a pointed bar or a 1-1/8" wrench, turn tensioning nut clockwise until tensioning is no longer possible. Do not modify the rope tensioner to achieve greater lifeline tension. See Figure 8. The final tension will be 300 to 450 lbs.

Figure 4

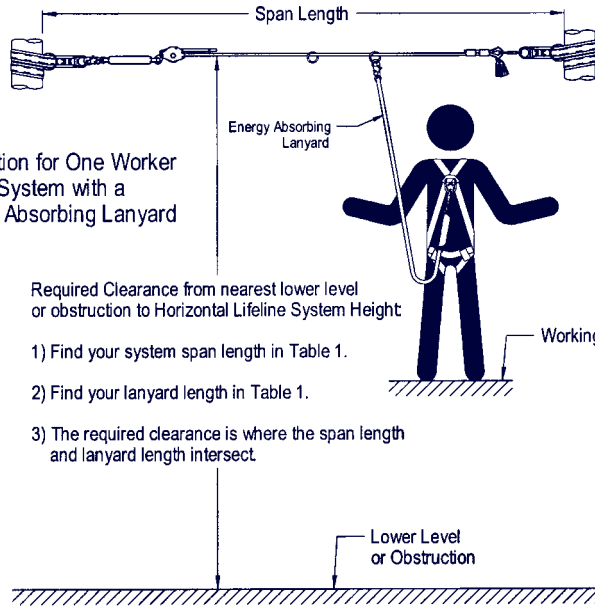


Table 1 - Required Clearance for One Workers Connected to the System with a DBI/SALA Energy Absorbing Lanyard (See Figure 4)

Span Length (in feet)	Length of Energy Absorbing Lanyard (in feet)							
	3	4	5	6	7	8	9	10
0 - 10	16'-1"	17'-1"	18'-1"	19'-1"	20'-1"	21'-1"	22'-1"	23'-1"
10 - 15	16'-3"	17'-3"	18'-3"	19'-3"	20'-3"	21'-3"	22'-3"	23'-3"
15 - 20	16'-5"	17'-5"	18'-5"	19'-5"	20'-5"	21'-5"	22'-5"	23'-5"
20 - 25	16'-7"	17'-7"	18'-7"	19'-7"	20'-7"	21'-7"	22'-7"	23'-7"
25 - 30	16'-9"	17'-9"	18'-9"	19'-9"	20'-9"	21'-9"	22'-9"	23'-9"
30 - 35	17'-6"	18'-6"	19'-6"	20'-6"	21'-6"	22'-6"	23'-6"	24'-6"
35 - 40	18'-3"	19'-3"	20'-3"	21'-3"	22'-3"	23'-3"	24'-3"	25'-3"
40 - 45	18'-11"	19'-11"	20'-11"	21'-11"	22'-11"	23'-11"	24'-11"	25'-11"
45 - 50	19'-6"	20'-6"	21'-6"	22'-6"	23'-6"	24'-6"	25'-6"	26'-6"
50 - 55	20'-2"	21'-2"	22'-2"	23'-2"	24'-2"	25'-2"	26'-2"	27'-2"
55 - 60	20'-10"	21'-10"	22'-10"	23'-10"	24'-10"	25'-10"	26'-10"	27'-10"
60 - 65	21'-5"	22'-5"	23'-5"	24'-5"	25'-5"	26'-5"	27'-5"	28'-5"
65 - 70	22'-1"	23'-1"	24'-1"	25'-1"	26'-1"	27'-1"	28'-1"	29'-1"
70 - 75	22'-8"	23'-8"	24'-8"	25'-8"	26'-8"	27'-8"	28'-8"	29'-8"
75 - 80	23'-4"	24'-4"	25'-4"	26'-4"	27'-4"	28'-4"	29'-4"	30'-4"
80 - 85	24'-0"	25'-0"	26'-0"	27'-0"	28'-0"	29'-0"	30'-0"	31'-0"
85 - 90	24'-7"	25'-7"	26'-7"	27'-7"	28'-7"	29'-7"	30'-7"	31'-7"
90 - 95	25'-3"	26'-3"	27'-3"	28'-3"	29'-3"	30'-3"	31'-3"	32'-3"
95 - 100	25'-10"	26'-10"	27'-10"	28'-10"	29'-10"	30'-10"	31'-10"	32'-10"

Figure 5

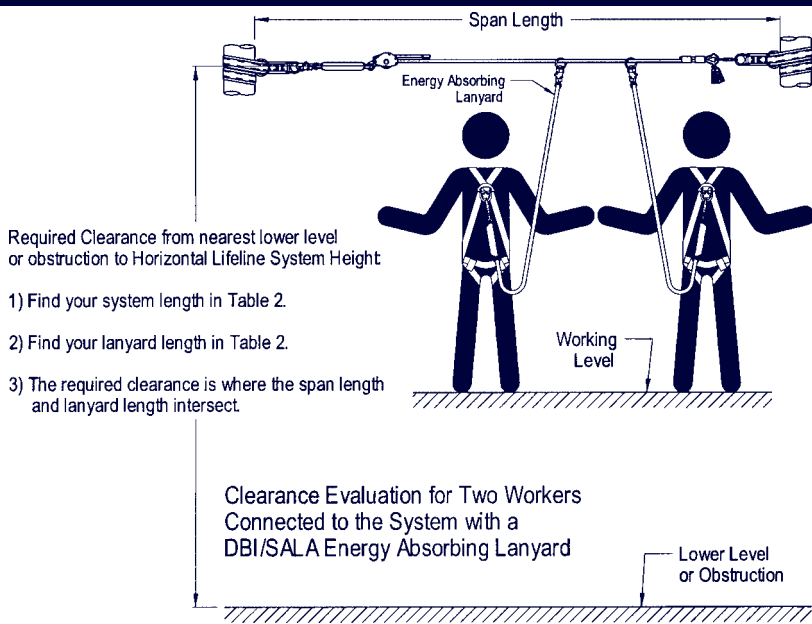


Table 2 - Required Clearance for Two Workers Connected to the System with a DBI/SALA Energy Absorbing Lanyard (See Figure 5)

Span Length (in feet)	Length of Energy Absorbing Lanyard (in feet)							
	3	4	5	6	7	8	9	10
0 - 10	16'-5"	17'-5"	18'-5"	19'-5"	20'-5"	21'-5"	22'-5"	23'-5"
10 - 15	17'-5"	18'-5"	19'-5"	20'-5"	21'-5"	22'-5"	23'-5"	24'-5"
15 - 20	18'-5"	19'-5"	20'-5"	21'-5"	22'-5"	23'-5"	24'-5"	25'-5"
20 - 25	19'-4"	20'-4"	21'-4"	22'-4"	23'-4"	24'-4"	25'-4"	26'-4"
25 - 30	20'-4"	21'-4"	22'-4"	23'-4"	24'-4"	25'-4"	26'-4"	27'-4"
30 - 35	21'-7"	22'-7"	23'-7"	24'-7"	25'-7"	26'-7"	27'-7"	28'-7"
35 - 40	22'-9"	23'-9"	24'-9"	25'-9"	26'-9"	27'-9"	28'-9"	29'-9"
40 - 45	23'-10"	24'-10"	25'-10"	26'-10"	27'-10"	28'-10"	29'-10"	30'-10"
45 - 50	24'-11"	25'-11"	26'-11"	27'-11"	28'-11"	29'-11"	30'-11"	31'-11"
50 - 55	26'-0"	27'-0"	28'-0"	29'-0"	30'-0"	31'-0"	32'-0"	33'-0"
55 - 60	27'-2"	28'-2"	29'-2"	30'-2"	31'-2"	32'-2"	33'-2"	34'-2"
60 - 65	28'-3"	29'-3"	30'-3"	31'-3"	32'-3"	33'-3"	34'-3"	35'-3"
65 - 70	29'-4"	30'-4"	31'-4"	32'-4"	33'-4"	34'-4"	35'-4"	36'-4"
70 - 75	30'-5"	31'-5"	32'-5"	33'-5"	34'-5"	35'-5"	36'-5"	37'-5"
75 - 80	31'-6"	32'-6"	33'-6"	34'-6"	35'-6"	36'-6"	37'-6"	38'-6"
80 - 85	32'-7"	33'-7"	34'-7"	35'-7"	36'-7"	37'-7"	38'-7"	39'-7"
85 - 90	33'-8"	34'-8"	35'-8"	36'-8"	37'-8"	38'-8"	39'-8"	40'-8"
90 - 95	34'-9"	35'-9"	36'-9"	37'-9"	38'-9"	39'-9"	40'-9"	41'-9"
95 - 100	35'-10"	36'-10"	37'-10"	38'-10"	39'-10"	40'-10"	41'-10"	42'-10"

Figure 6

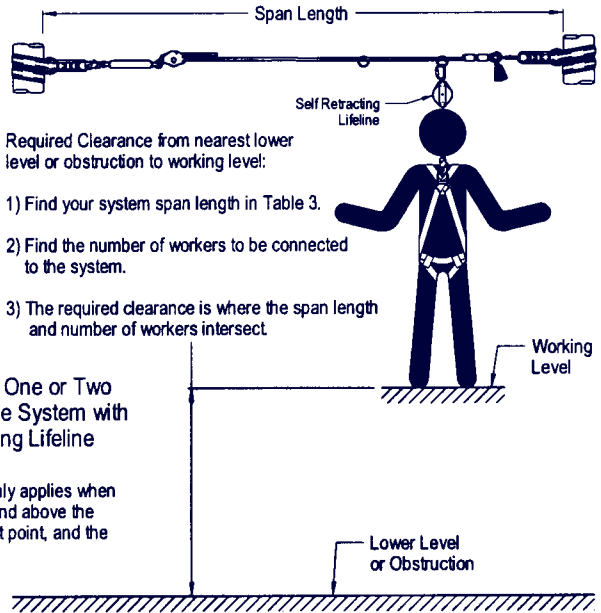
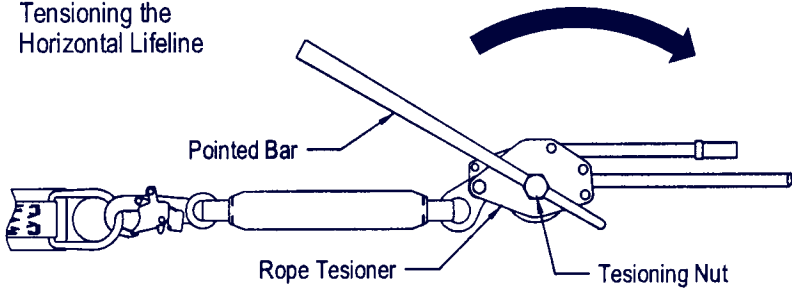


Table 3 - Required Clearance for One or Two Workers Connected to the System with a DBI/SALA Self Retracting Lifeline

Span Length (in feet)	Required Clearance Below Working Level for One Worker	Required Clearance Below Working Level for Two Workers
0 - 10	7' - 11"	8' - 11"
10 - 15	8' - 2"	9' - 7"
15 - 20	8' - 5"	10' - 3"
20 - 25	8' - 8"	10' - 10"
25 - 30	8' - 10"	11' - 6"
30 - 35	9' - 1"	12' - 2"
35 - 40	9' - 4"	12' - 9"
40 - 45	10' - 3"	14' - 2"
45 - 50	11' - 3"	15' - 6"
50 - 55	12' - 2"	16' - 11"
55 - 60	13' - 2"	18' - 3"
60 - 65	14' - 2"	19' - 8"
65 - 70	15' - 1"	21' - 0"
70 - 75	16' - 1"	22' - 5"
75 - 80	17' - 0"	23' - 9"
80 - 85	18' - 0"	25' - 2"
85 - 90	19' - 0"	26' - 6"
90 - 95	19' - 11"	27' - 11"
95 - 100	20' - 11"	29' - 3"

Figure 8

Tensioning the Horizontal Lifeline



3.3 OPERATION:

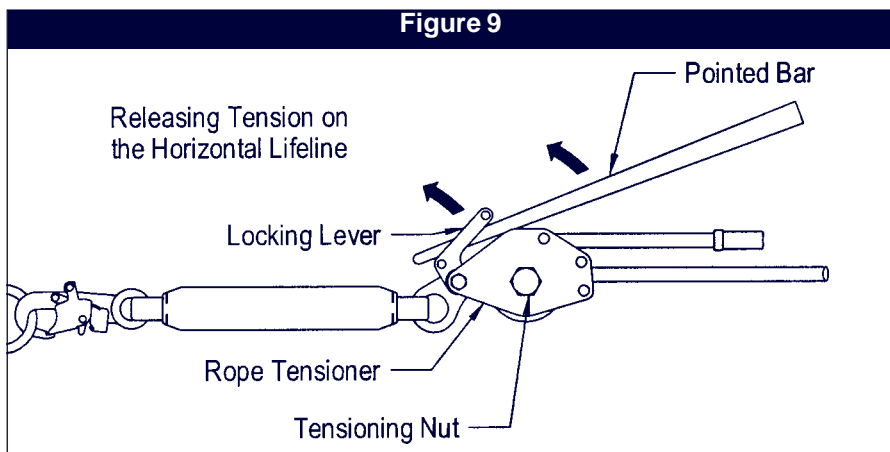
- A. PERSONAL FALL ARREST SYSTEM COMPONENTS:** Inspect and don the full body harness according to manufacturer's instructions. Attach the connecting subsystem (energy absorbing lanyard or SRL) to the dorsal connection on the harness.
- B. CONNECTING TO THE HORIZONTAL LIFELINE SYSTEM:** Approach the work area using the appropriate access equipment. Connect your personal fall arrest system to one of the attachment O-rings on the horizontal lifeline. Connectors must meet all compatibility and strength requirements.
- C. HAZARDOUS SITUATIONS:** Do not take unnecessary risks, such as jumping or reaching too far from the edge of the working surface. Do not allow the connecting subsystem to pass under arms or between feet. To avoid inadequate clearance, do not climb above the horizontal lifeline. To avoid swing fall hazards, do not work too far from either side of the horizontal lifeline.
- D. TWO (2) PERSONS CONNECTED TO THE HLL:** When a person falls while connected to the horizontal lifeline, the system will deflect. If two (2) persons are connected to the same horizontal lifeline, and one (1) person falls, the second person may be pulled off the working surface due to deflection. The potential for the second person falling increases as the horizontal lifeline span length increases. The use of independent horizontal lifeline systems for each person, or shorter span length, is recommended to minimize the potential of the second person falling.
- E. FREE FALL:** The personal fall arrest system must be rigged to limit free falls to six (6) feet or less when using an energy absorbing lanyard, or such that the SRL is overhead without slack, according to OSHA requirements.

- F. **SHARP EDGES:** Avoid working where the connecting subsystem or other system components will be in contact with, or abrade against, unprotected sharp edges. If working around sharp edges is unavoidable, a protective cover must be used to prevent cutting of the personal fall arrest system components.
- G. **IN THE EVENT OF A FALL:** The responsible party must have a rescue plan and the ability to implement a rescue. Tolerable suspension time in a full body harness is limited, so a prompt rescue is critical.
- H. **RESCUE:** With the number of potential scenarios for a worker requiring rescue, an on-site rescue team is beneficial. The rescue team is given the tools, both in equipment and technique, to perform a successful rescue. Training should be provided on a periodic basis to ensure rescuers' proficiency.

3.4 SYSTEM REMOVAL: When no longer required, the horizontal lifeline system should be removed from the job site.

A. RELEASE TENSION ON THE HORIZONTAL LIFELINE:

- Step 1.** Lift the locking lever and position the pointed bar under the locking lever as shown in Figure 9.
- Step 2.** Push the pointed bar in a upward motion to unlock the lever.
- Step 3.** Loosen the tensioning nut by inserting the pointed bar through the hole in the nut (or use a 1-1/8" wrench) and turn the tensioning nut counterclockwise.
- Step 4.** Remove all knots and kinks in the rope before storage.



4.0 TRAINING

4.1 It is the responsibility of all users of this equipment to understand these instructions, and to be trained in the correct installation, use, and maintenance of this equipment. These individuals must be aware of the consequences of improper installation or use of this equipment. This user manual is not a substitute for a comprehensive training program. Training must be provided on a periodic basis to ensure proficiency of the users.

5.0 INSPECTION

5.1 BEFORE EACH INSTALLATION: Inspect all system components according to these or other manufacturer's instructions. System components must be formally inspected by a qualified person, other than the user, at least annually. Formal inspections should concentrate on visible signs of deterioration or damage to the system components. Items found to be defective must be replaced. Do not use components if inspection reveals an unsafe or defective condition. Record results of each inspection in the inspection and maintenance log in section 9.0 of this manual.

5.2 INSTALLED SYSTEMS: An inspection of the horizontal lifeline system by a qualified person must be conducted after the system is installed. The system must be periodically inspected by a qualified person when left installed for an extended period, and prior to each day's use. Periodic inspections should be performed at least monthly, or more frequently when site conditions and use warrant. Inspections of installed systems should include the inspection steps listed in section 5.3.

5.3 BEFORE SYSTEM USE:

Step 1. Inspect all metal components (hooks, O-rings, rope tensioner, etc.) for cracks, deformities, corrosion, or other damage that may affect their strength or operation.

Step 2. Inspect rope for concentrated wear. Material must be free of frayed strands, broken yarns, cuts, abrasions, burns, and discoloration. The rope must be free of knots, excessive soiling, paint build-up, and rust staining. Inspect ferrules for cracks or other damage. Thimble must be held firmly by the ferrule. Check for chemical or heat damage; indicated by brown, discolored, or brittle areas. Check for ultraviolet damage; indicated by discoloration, splinters, and slivers along the rope surface. All of the above factors are known to reduce rope strength.

- Step 3.** Inspect system labels. The labels must be present and fully legible. See section 8.0.

IMPORTANT: *If this equipment is subjected to the forces of a fall arrest, it must be removed from service and destroyed, or returned to DBI/SALA for inspection or repair.*

- 5.4** If inspection reveals an unsafe or defective condition, remove unit from service and destroy, or contact DBI/SALA for possible repair.

IMPORTANT: *Only DBI/SALA or parties authorized in writing may make repairs to this equipment.*

- 5.5 USER EQUIPMENT:** Inspect harness and energy absorbing lanyard or SRL according to manufacturer's instructions.

6.0 MAINTENANCE, SERVICING, STORAGE

- 6.1 CLEANING AND MAINTENANCE:** Clean the horizontal lifeline system with water and a mild detergent. Wipe dry with a clean, dry cloth and hang to air dry. Do not force dry with heat. An excessive build-up of dirt, paint, etc. may prevent the system from working properly, and in severe cases, weaken the rope. A lubricant may be applied to the moving parts of the rope tensioner. Do not allow lubricant to contact the rope tensioner teeth.

- 6.2 STORAGE:** Store this horizontal lifeline system in a clean, dry environment, out of direct sunlight. Avoid areas where chemical vapors are present. Thoroughly inspect the system after extended storage.

- 6.3 USER EQUIPMENT:** Maintain, service, and store user equipment according to manufacturer's instructions.

7.0 SPECIFICATIONS

7.1 MATERIALS:

Rope Tensioner: Steel, plated

O-rings: Alloy steel, plated

Lifeline Rope: Nylon

Rope Tensioner Strap: Polyester/Nylon

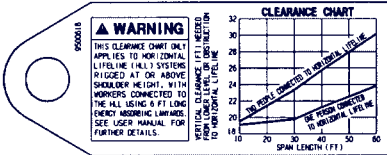
Snap Hooks: Alloy steel, plated

Carabiners: High tensile alloy steel, plated

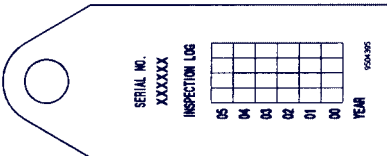
Tie-off Adaptor: Polyester web, plated alloy steel hardware

8.0 LABELING

8.1 These labels must be present and fully legible:



INSPECTION: BEFORE EACH USE INSPECT SYSTEM TO DETERMINE IF IT IS IN GOOD CONDITION WITH ALL CONNECTIONS PROPERLY SECURED. AT LEAST MONTHLY, SYSTEM SHOULD BE INSPECTED BY A COMPETENT PERSON IN ACCORDANCE WITH THE USER MANUAL. DO NOT USE IF INSPECTION REVEALS AN UNSAFE OR DEFECTIVE CONDITION. NOT USER REPAIRABLE.



SYNTHETIC HORIZONTAL LIFELINE SYSTEM

MRFD (M/NO)/LOT: MODEL NO: LENGTH (FT):

SPECIFICATIONS: THIS HORIZONTAL LIFELINE SYSTEM HAS A MAXIMUM CAPACITY OF TWO WORKERS. MAXIMUM WORKER WEIGHT, INCLUDING TOOLS AND CLOTHING, IS 310 LBS. THE SYSTEM COMPONENT MATERIALS ARE AS FOLLOWS: ROPE TIGHTENER - STEEL; HLL ROPE - NYLON; CONNECTING WEB STRAP - POLYESTER; SHAP HOOKS AND OTHER HARDWARE - STEEL. THIS SYSTEM MEETS OSHA REQUIREMENTS FOR FALL PROTECTION SYSTEMS WHEN USED IN ACCORDANCE WITH THE USER MANUAL.

9.0 INSPECTION AND MAINTENANCE LOG

SERIAL NUMBER: _____

MODEL NUMBER: _____

DATE PURCHASED: _____

INSPECTION DATE	INSPECTION ITEMS NOTED	CORRECTIVE ACTION	MAINTENANCE PERFORMED
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			

9.0 INSPECTION AND MAINTENANCE LOG

SERIAL NUMBER: _____

MODEL NUMBER: _____

DATE PURCHASED: _____

INSPECTION DATE	INSPECTION ITEMS NOTED	CORRECTIVE ACTION	MAINTENANCE PERFORMED
Approved By:			
Approved By:			
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WARRANTY

Equipment offered by DBI/SALA is warranted against factory defects in workmanship and materials for a period of two years from date of installation or use by the owner, provided that this period shall not exceed two years from date of shipment. Upon notice in writing, DBI/SALA will promptly repair or replace all defective items. DBI/SALA reserves the right to elect to have any defective item returned to its plant for inspection before making a repair or replacement. This warranty does not cover equipment damages resulting from abuse, damage in transit, or other damage beyond the control of DBI/SALA. This warranty applies only to the original purchaser and is the only one applicable to our products, and is in lieu of all other warranties, expressed or implied.



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Phone: (651) 388-8282
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Fax: (905) 795-8777



Certificate No. FM 39709

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