



# SAFEWAZE™

## FS807 60' PORTABLE KERNMANTLE ROPE HORIZONTAL LIFELINE



Compliant with OSHA 1910, OSHA 1926 Subpart M  
and ANSI A10.32

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## Introduction of FS807 & Scope of Use

Thank you for purchasing a SAFEWAZE™ FS807 Temporary Rope Horizontal Lifeline. This manual must be read and understood in its entirety, and used as part of an employee training program as required by OSHA or any applicable state agency.

This manual and any other instructional material must be available to the user of the equipment. The user must understand how to safely and effectively use the FS807, and all fall protection equipment used in conjunction with the FS807.

The SAFEWAZE™ FS807 has been designed for your safety.

These temporary lifeline systems are designed to offer users a flexible anchorage between two structures. The lines can also be used to provide a temporary handrail or barrier system.

### FS807



System	Recommended Users	Maximum Users
FS807	2	3

## Applicable Safety Standards

When used according to instructions, this product meets or exceeds all applicable OSHA 1926.502 Subpart M, OSHA 1910, and ANSI A10.32 standards for fall protection. Applicable standards and regulations depend on the type of work being done, and also might include state-specific regulations. Refer to local, state, and federal (OSHA) requirements for additional information concerning the governing of occupational safety regarding Personal Fall Arrest Systems (PFAS).

## Worker Classifications



Understand the definitions of those who work in proximity of or may be exposed to fall hazards.

**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 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 safety regulations are complied with.**

## Product Specific Applications

**Personal Fall Arrest:** SAFEWAZE™ FS807 Horizontal Lifelines can be used as part of a complete Personal Fall Arrest System (PFAS) for a maximum of 3 users. The structure utilized for attachment must be capable of withstanding a load of 5,000 lbs in all directions permitted by the system. The maximum allowable free fall is 6 ft, with the maximum combined length of the fall arrester, lanyard extension, and D-ring being 36 inches.

# Limitations

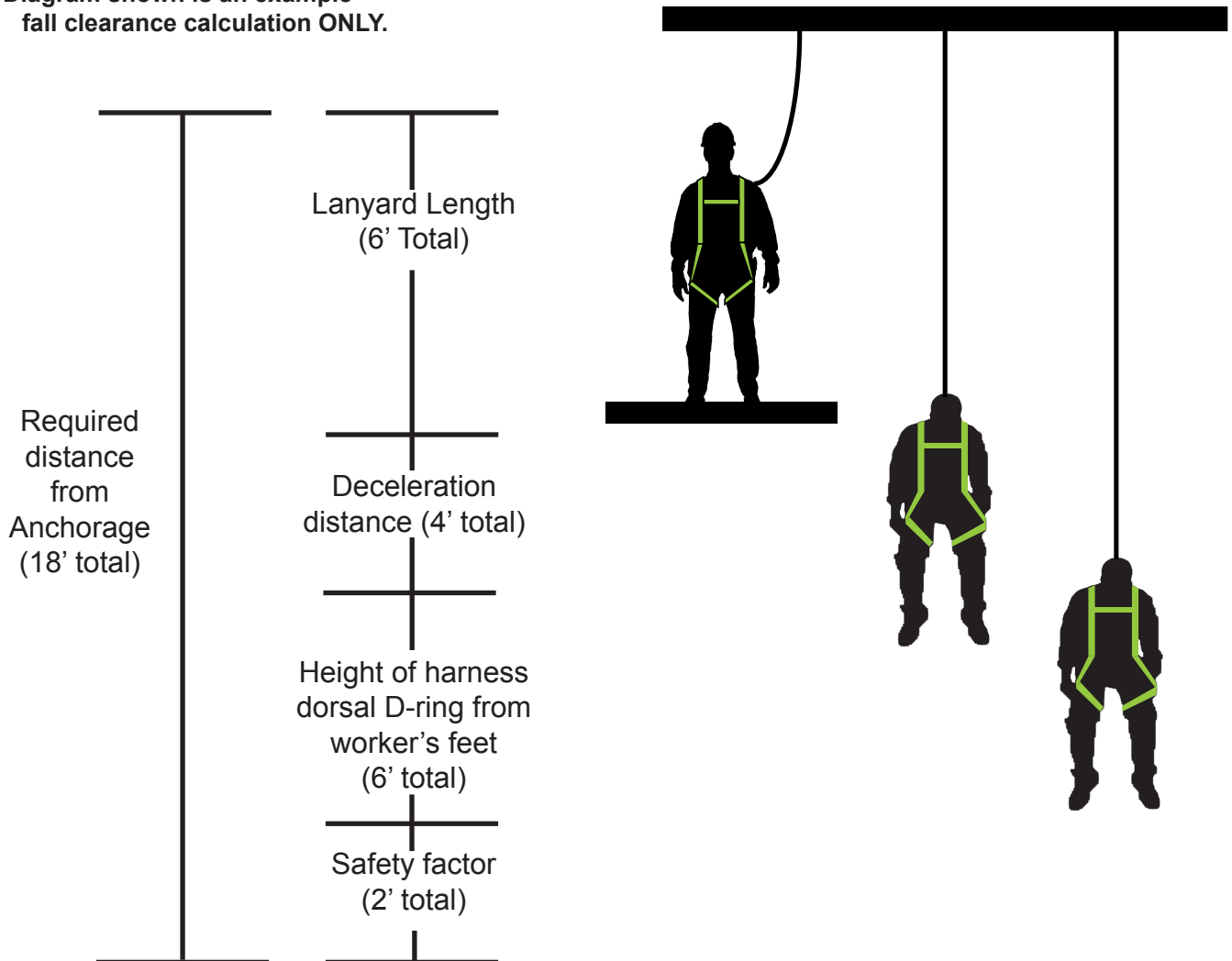
**Fall Clearance:** There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 2' safety factor, deceleration distance, user height, length of lanyard/SRL, and all other applicable factors. (See Figure 1)

**FIGURE 1**

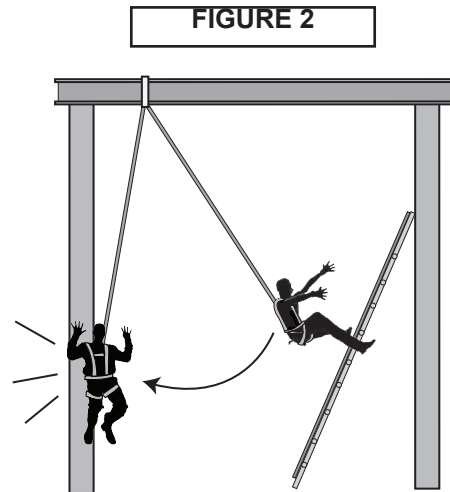
For all applications: worker weight capacity range (including all clothing, tools, and equipment) is 130-310 lbs

## Fall Clearance Diagram

\*\*\*Diagram shown is an example fall clearance calculation ONLY.



**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. (See Figure 2)



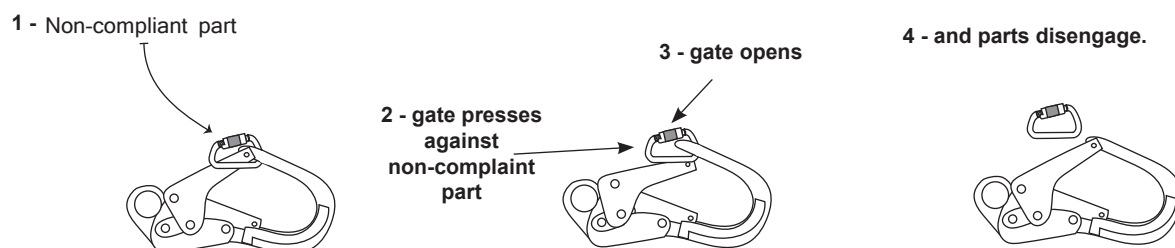
## COMPATIBILITY OF CONNECTIONS

Connectors are compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to inadvertently open regardless of how they become oriented. Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbs. (22.2 kN). Connectors must be compatible with the anchorage or other system components (see Figure 4). Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage (see Figure 3). Connectors must be compatible in size, shape, and strength. Self-locking snap hooks and carabiners are required by ANSI Z359 and OSHA guidelines. Contact SAFEWAZE™ if you have any questions about compatibility.



**NOTE:** SOME SPECIALITY CONNECTORS HAVE ADDITIONAL REQUIREMENTS. CONTACT SAFEWAZE™ WITH QUESTIONS.

**FIGURE 3 - UNINTENTIONAL DISENGAGEMENT**



Using a connector that is undersized or irregular in shape (1) to connect a snap hook or carabiner could allow the connector to force open the gate of the snap hook or carabiner. When force is applied, the gate of the hook or carabiner presses against the non-compliant part (2) and forces open the gate (3). This allows the snap hook or carabiner to disengage (4) from the connection point.

## MAKING CONNECTIONS

Snap hooks and carabiners used with this equipment must be double locking and/ or twist lock. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked.

SAFEWAZE™ connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. See figure 4 for examples of inappropriate connections. Do not connect snap hooks and carabiners:

- To a D-ring to which another connector is attached.
- In a manner that would result in a load on the gate (with the exception of tie back hooks).
- NOTE: Large snap hooks must not be connected to objects which will result in a load on the gate if the hook twists or rotates, unless the snap hook complies with ANSI Z359.1-2007 or ANSI Z359.12 and is equipped with a 3,600 lb (16 kN) gate. Check the marking on your snap hook to verify its compatibility.

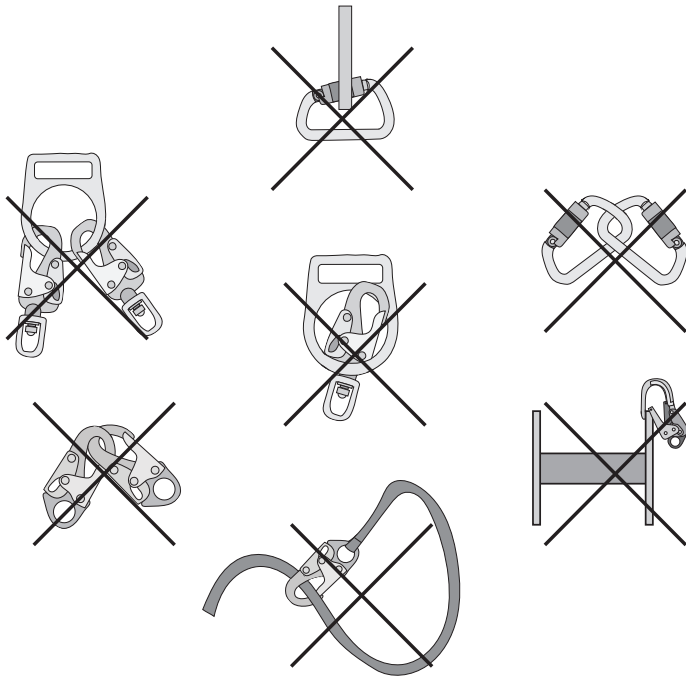


**NOTE:** Large throat snap hooks must not be connected to standard size D-rings or similar objects which will result in a load on the gate if the hook or D-ring twists or rotates, unless the snap hook complies with ANSI Z359.1-2007 or ANSI Z359.12 and is equipped with a 3,600 lb (16 kN) gate. Check the marking on your snap hook to verify that it is appropriate for your application.

- In a false engagement, where features that protrude from the snap hook or carabiner catch on the anchor, and without visual confirmation seems to be fully engaged to the anchor point.
- To each other.
- By wrapping the web lifeline around an anchor and securing to lifeline except as allowed for Tie Back models.
- To any object which is shaped or sized in a way that the snap hook or carabiner will not close and lock, or that roll-out could occur.
- In a manner that does not allow the connector to align properly while under load.



**FIGURE 4 - INAPPROPRIATE CONNECTIONS**

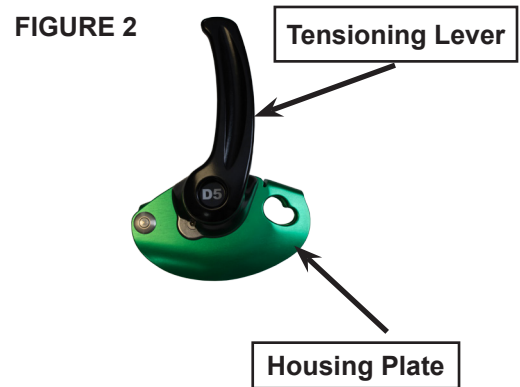
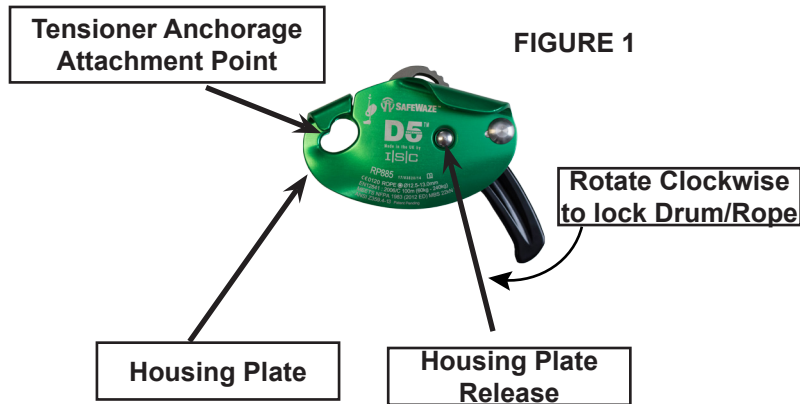


## Components and Specifications





# Installation and Use

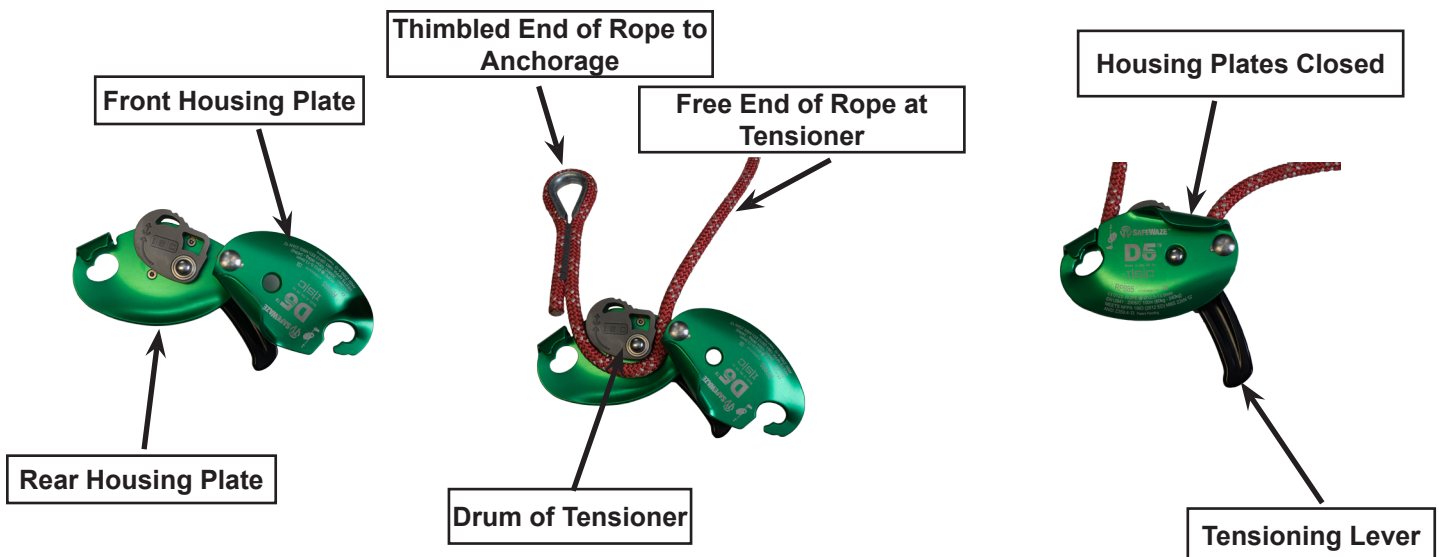


1. Depress Housing Plate Release button and swive apart Housing Plates. Wrap rope around the drum of the tensioner as indicated related to rope end anchor point. Observe the path of the rope with regard to both the drum and housing plate edges.

2. With a carabiner and cross arm strap, attach the thimbled end of the rope to one anchorage and with the second carabiner secure the tensioner to the second anchorage via the Tensioner Anchorage Attachment Point. If the tensioner is installed as indicated, the tail of the rope will hang down.

3. Pull slack through the tensioner by hand, and check that the rope is sitting in the groove of the drum at this time. Ensure that as rope stays in the groove of the drum.

4. The rope can be pulled through the tensioner so that the horizontal portion of the lifeline becomes taught enough to hold and arrest a fall. Once satisfactory tension is achieved on the lifeline, rotate the lever as indicated until rotation of lever stops (Figure 1), to lock the drum/rope in the tensioner. This may be tested by loading the rope 5 ft (1.5 m) from the tensioner by hand pulling downward on the lifeline. The sag of the lifeline should not exceed 4 in (100 mm).



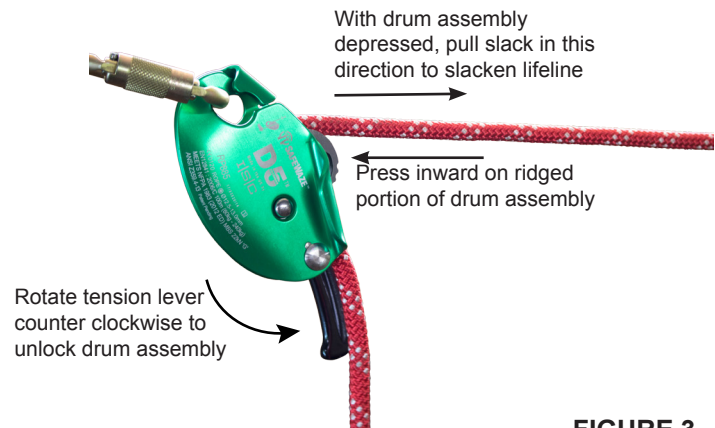
# Uninstall Guide

Uninstall is easily achieved by rotating the handle counter clockwise (see Figure 3) to unlock drum assembly. With the drum assembly unlocked, press in on the ridged portion of the drum assembly while at the same time pulling the rope through the tensioner to slacken horizontal lifeline. Once enough slack is achieved, disconnect the tensioner and opposite end of the lifeline from anchorage points.

**Sample Image of Installed System**



**Uninstall Diagram**



**FIGURE 3**

## FS807 Fall Clearance Chart

SAFEWAZE Required Clearance for up to 3 Users Maximum 60 ft span			
Span Length in Feet (m)	Fall Clearance with 6ft Energy Absorbing Lanyard in feet (m) ONE USER	Fall Clearance with 6ft Energy Absorbing Lanyard in feet (m) TWO USERS	Fall Clearance with 6ft Energy Absorbing Lanyard in feet (m) THREE USERS
1-10 (.30-3.05)	20'-1" (6.12)	20'-9" (6.32)	21'-5" (6.53)
11-20 (3.35-6.10)	21' (6.40)	21'-8" (6.60)	22'-4" (6.81)
21-30 (6.40-9.14)	22'-2" (6.76)	23'-6" (7.16)	24'-1" (7.34)
31-40 (9.45-12.20)	23'-1" (7.04)	25'-9" (7.85)	26'-8" (8.13)
41-50 (12.50-15.24)	24' (7.32)	28'-2" (8.60)	30'-1" (9.17)
51-60 (15.54-18.30)	25'-1" (7.65)	30'-6" (9.30)	31'-7" (9.63)

# Inspection and Maintenance

## Inspection

Inspect the device for corrosion and/or damage.

Check the Housing Plates for signs of distortion.

Ensure that the Housing Plate Pins are not damaged and that the plate can freely move and seats properly on the pins.

Check that the tensioner lever opens and operates properly.

Ensure the swivel element on the rope is free to swivel and there are not cracks or structural defects.

Inspect both the webbing and rope for cuts, abrasions and contamination.

## Maintenance

Any SAFEWAZE™ FS807 Horizontal Lifeline components requiring maintenance must be tagged “unusable” and removed from service.

Cleaning maintenance may be performed by the user.

Repairs to the product may only be made by the manufacturer or entities authorized in writing by the manufacturer.

**THIS DEVICE MUST ONLY BE SERVICED BY A TRAINED AND COMPETENT INDIVIDUAL!  
NEVER ATTEMPT TO SERVICE THIS UNIT OR TAMPER WITH ITS FUNCTION IN ANY WAY!**

## Storage

When not installed, the SAFEWAZE™ FS807 Horizontal Lifeline should be stored in a cool, dry place out of direct sunlight. Do not store in areas where damage from environmental factors such as heat, light, excessive moisture, oil, chemicals and their vapors, or other degrading elements may be present. Do not store damaged equipment or equipment in need of maintenance in the same area as product approved for use. Equipment that has been stored for an extended period must be inspected as described in these User Instructions prior to use.

# Inspection Log

DATE	CONDITION OF SYSTEM	INSPECTED BY:

# Labels



**SAFEWAZE™**  
 322 Industrial Court  
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 www.safewaze.com



SW-PR60-13MM

**MODEL #: SW-PR60-13mm | HORIZONTAL KERNMANTLE ROPE LIFELINE (RED)**

<b>SERIAL #:</b>	<b>MFG DATE:</b>	<b>MATERIALS:</b>
11600000	05/2017	Polyester cover; steel hardware

**MUST FOLLOW ALL MFG'S INSTRUCTIONS INCLUDED WITH THE EQUIPMENT**

**Meets: OSHA 1926.502**

- MAX WEIGHT CAPACITY: 310 lbs
- LENGTH: 60 ft
- DIAMETER: 13 mm
- ELONGATION: 5% at 1000 lbf
- INSPECT BEFORE EACH USE
- AVOID CONTACT WITH SHARP EDGES AND ABRASIVE SURFACES
- ONLY MAKE COMPATIBLE CONNECTIONS
- DO NOT REMOVE LABEL
- IMMEDIATELY REMOVE FROM SERVICE IF SUBJECTED TO FALL ARREST FORCES



**SAFEWAZE™**  
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FS811

**MODEL #: FS811 | 6 FT CROSS ARM STRAP**

<b>SERIAL #:</b>	<b>MFG DATE:</b>
11601922	03/2017

- MATERIALS: Polyester webbing; steel hardware
- MAX WEIGHT CAPACITY: 310 lbs
- AVOID CONTACT WITH SHARP EDGES AND SURFACES
- ONLY MAKE COMPATIBLE CONNECTIONS
- INSPECT BEFORE EACH USE
- ANY UNIT WHICH HAS SEEN FALL ARREST FORCES MUST BE REMOVED FROM SERVICE
- DO NOT REMOVE LABEL
- MINIMUM BREAKING STRENGTH: 5000 lbf / 22.25 kN

**MUST FOLLOW ALL MFG'S INSTRUCTIONS INCLUDED WITH THE EQUIPMENT**

**Meets: OSHA 1926.502 and ANSI Z359.1**

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