User Manual

SAFEWAZE ™

FS808
60’, 80’ AND 100’
PORTABLE ROPE HORIZONTAL LIFELINE

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

2010

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Introduction of FS808 & Scope of Use

Thank you for purchasing a SAFEWAZE™ FS808 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 FS808, and all fall protection equipment used in conjunction with the FS808.

The SAFEWAZE™ FS808 has been designed for your safety.

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

FS808

System	Recommended Users	Maximum Users
FS808	2	4

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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 accredidated 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™ FS808 Horizontal Lifelines can be used as part of a complete Personal Fall Arrest System (PFAS) for a maximum of 4 users (310 lbs/person 2-user maximum, 220 lbs/person 4-user maximum). 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.

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Limitations

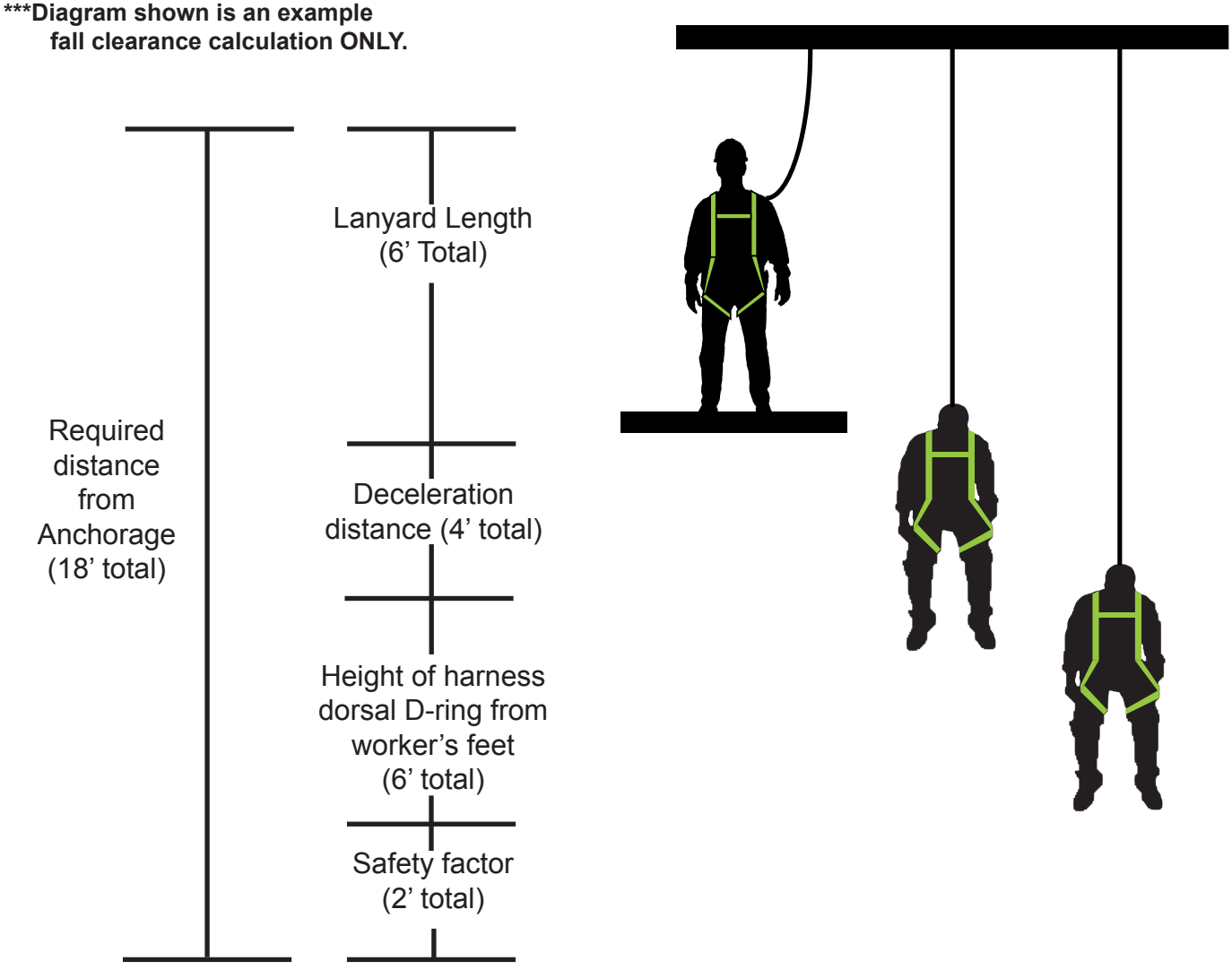
Fall Clearance: There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 2' safety factor, deceleration distance, user height, length of lanyard/SRL, and all other applicable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



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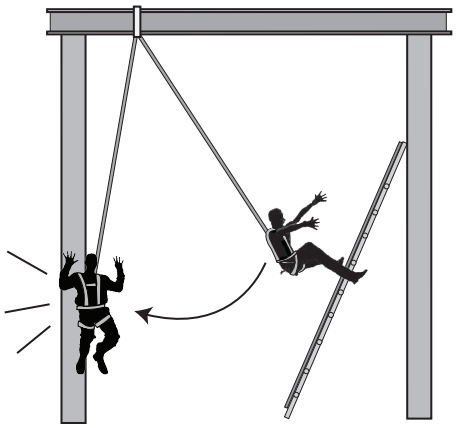
Swing Falls: Prior to installation or use, make considerations for eliminating or minimizing all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs.Always work as close to in line with the anchor point as possible. Swing falls significantly increase the likelihood of serious injury or death in the even of a fall. (See Figure 2)

FIGURE 2

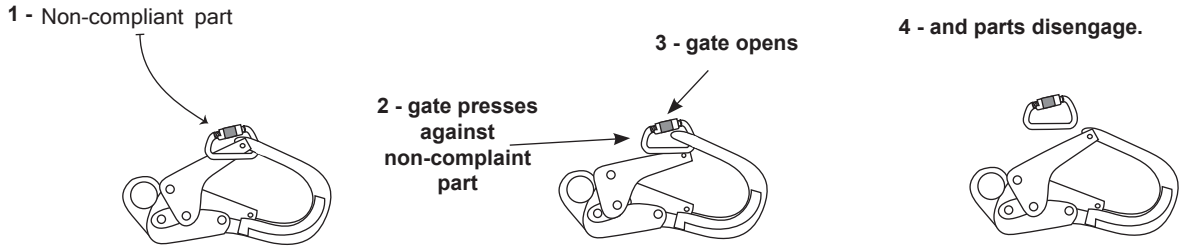


COMPATIBILITY OF CONNECTIONS

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



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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.

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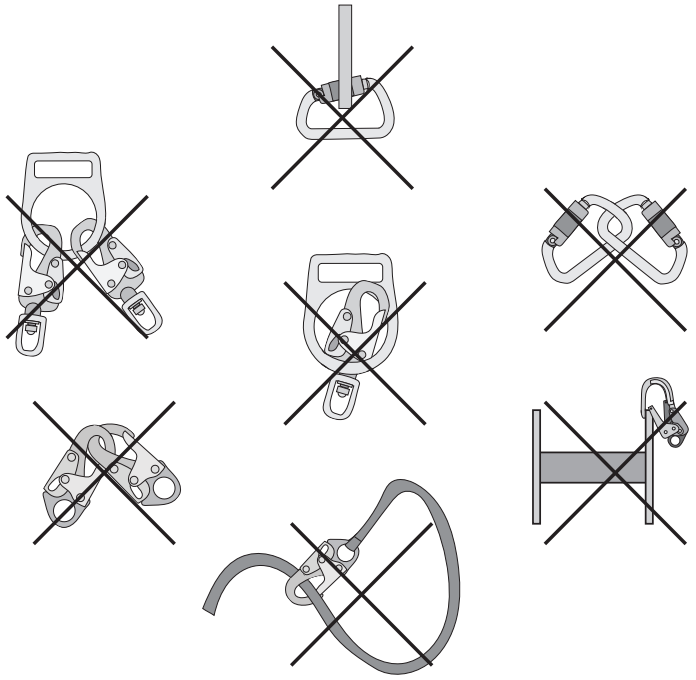
FIGURE 4 - INAPPROPRIATE CONNECTIONS



Components and Specifications

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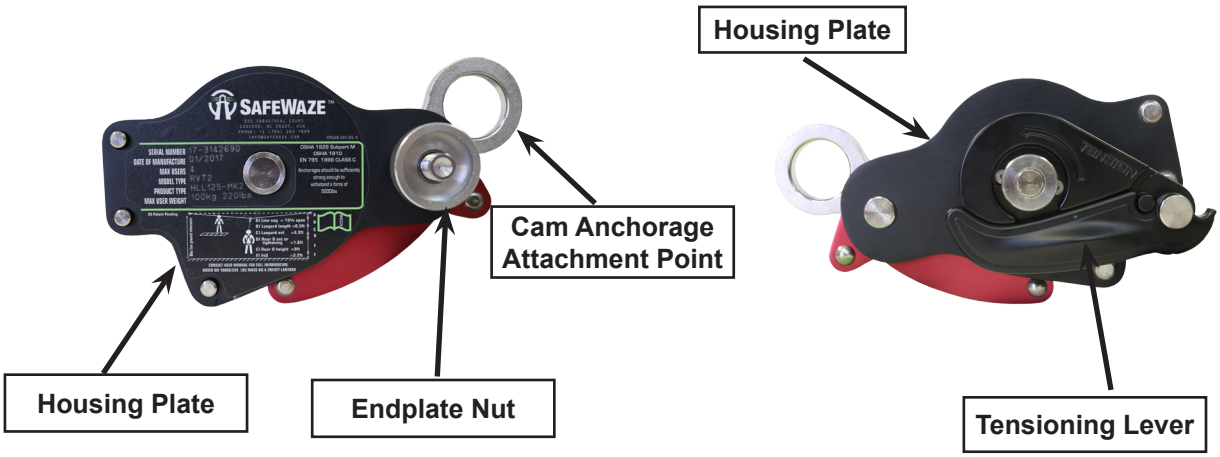
Installation and Use

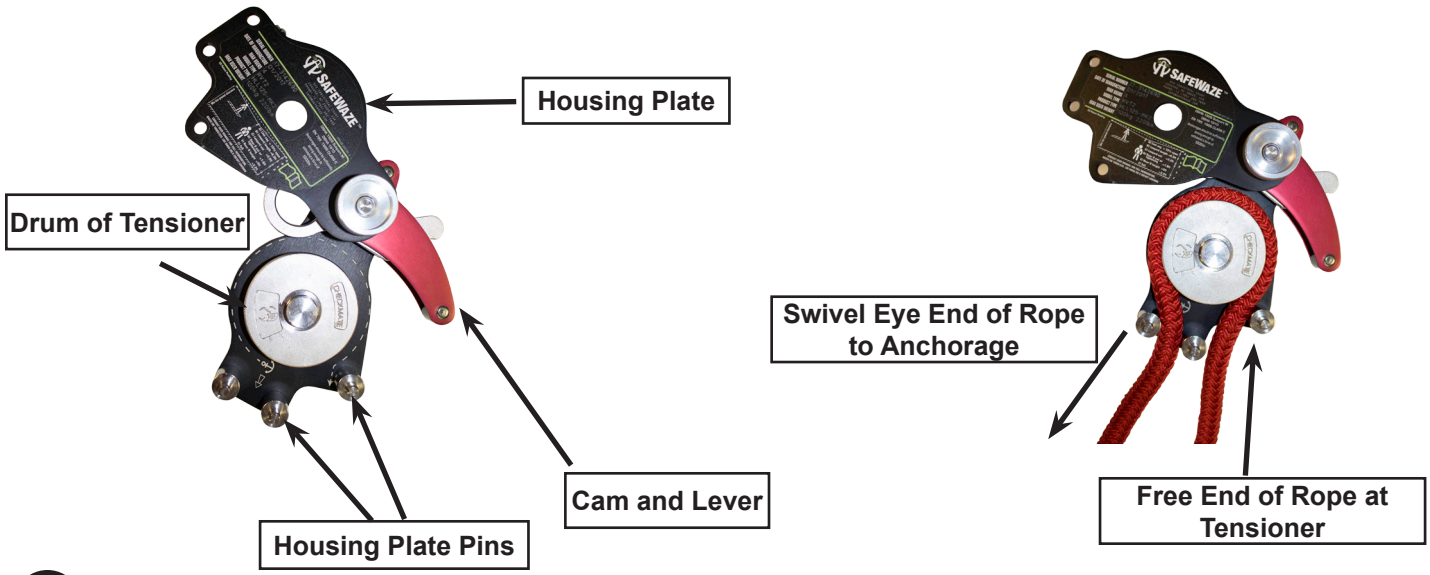


1. Loosen endplate nut and Split Housing Plates. Pull back cam and lever and wrap rope around the drum of the tensioner as indicated related to rope end anchor point. Observe the path of the rope with regard to both the Cam and the Housing Spacers. Reposition the housing plates, and ensure the plate sits squarely on the pins. Once aligned, tighten the endplate nut securely to hold the plates in position.

2. With a carabiner and cross arm strap, attached the swivel end of the rope to one anchorage and with the second carabiner secure the cam of the tensioner to the second anchorage. If the tensioner is installed as indicated, the tail of the rope will hang down and may be used with an automatic rope grab as a life line for access protection

3. Pull initial slack through the tensioner by hand, and check that the rope is sitting in the groove of the drum at this time. If the rope is trapped between the cam and the side of the drum, release the cam by hand and pull on the rope till it slips back into the center of the drum. It is not necessary to pull rope till it is fully taught, this is achieved by winding on tension with the tensioning lever.

4. The rope tensioner can be wound so that the horizontal portion of the lifeline becomes taught enough to hold and arrest a fall. Do not try to reverse wind the tensioner as the cam will lock and resist any rotation in this direction. This lifeline requires 400 lbs (200 kg) of force to function optimally. 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 loosening the endplate nut which will then loosen the the cam lever enough to be pulled back. With some small effort, the cam will release from the drum allowing the rope to be pulled back through the tensioner and the lifeline taken down from its anchorage. Upon releasing the rope, check the rope at the point of the tensioner to ensure that wear and tear during use has not separated the fibers of the rope's protective sheath.

Sample Image of Installed Tensioner

FS808 Fall Clearance Chart

SAFEWAZE Required Clearance for up to 4 Users Maximum 100 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	Fall Clearance with 6ft Energy Absorbing Lanyard in feet (m) FOUR USERS
1-10 (.30-3.05)	18 (5.48)	19 (5.79)	20 (6.10)	21.32 (6.50)
11-20 (3.35-6.10)	19 (5.79)	20 (6.10)	21 (6.40)	22.47 (6.85)
21-30 (6.40-9.14)	20.5 (6.25)	21.6 (6.58)	22.8 (6.95)	24.27 (7.40)
31-40 (9.45-12.20)	22 (6.71)	23.1 (7.04)	24.3 (7.41)	25.42 (7.75)
41-50 (12.50-15.24)	23.7 (7.22)	24.8 (7.55)	26 (7.92)	27.23 (8.30)
51-60 (15.54-18.30)	25 (7.62)	26.2 (7.98)	27.6 (8.41)	28.87 (8.80)
61-70 (18.59-21.34)	26.4 (8.05)	27.8 (8.47)	29 (8.84)	30.18 (9.20)
71-80 (21.64-24.38)	28.1 (8.56)	29.5 (8.99)	30.7 (9.35)	32 (9.75)
81-90 (24.70-27.43)	30.25 (9.22)	31.9 (9.72)	33.5 (10.21)	34.2 (10.42)
91-100 (27.74-30.48)	32.6 (9.94)	33.7 (10.27)	35 (10.66)	36.75 (11.20)

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™ FS808 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™ FS808 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:

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Labels

SAFEWAZE™
322 Industrial Court
Concord, NC 28025
(704) 262-7893
www.safewaze.com

CH-SPECIAL ROPE

MODEL #: CH-SPECIAL ROPE | DOUBLE BRAIDED

SERIAL #:	MFG DATE:	MATERIALS:
11600000	03/2017	Polyester cover; nylon core; steel hardware

MUST FOLLOW ALL MFG'S INSTRUCTIONS INCLUDED WITH THE EQUIPMENT

Meets: OSHA 1926.502 and ANSI Z359.1

-MAX WEIGHT CAPACITY: 310 lbs
-LENGTH: 80 ft
-DIAMETER: 16 mm
-ELONGATION: 12.5% at 1800 lbs
-INSPECT BEFORE EACH USE
-AVOID CONTACT WITH SHARP EDGES AND ABRASIVE SURFACES
-ONLY MAKE COMPAITBLE CONNECTIONS
-DO NOT REMOVE LABEL

SAFEWAZE™
322 Industrial Court
Concord, NC 28025
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FS811

MODEL #: FS811 | 6 FT CROSS ARM STRAP

SERIAL #: 11601922 **MFG DATE:** 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

01203

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