

FS860 Sliding Beam Anchor Manual



APPLICABLE SAFETY STANDARDS

When used according to instructions, Safewaze Anchors meet ANSI 2359.1-2020, A10.32-2012 and OSHA 1910.140, 1926.502 regulations. Applicable standards and regulations depend on the type of work being done and may include state-specific regulations. Refer to local, state, and federal requirements for additional information on the governing of occupational safety regarding Personal Fall Arrest Systems (PFAS).

AWARNING:

The manufacturer's instructions must be provided to users of this equipment. The user must follow the manufacturer's instructions for each component of the system. 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. The user must understand how to safely and effectively use the FS860 beam anchor and all equipment used in conjunction with FS860. Alterations to this product, misuse of this product, or failure to follow instructions may result in serious injury or death. Avoid moving machinery, sharp and/or abrasive edges, and any other hazard that could damage or degrade the component.

Do not throw away instructions! Read and understand instructions before using equipment!

MIMPORTANT:

- Please refer to this manual for essential instruction on the use, care, or suitability of this
 equipment for your application. Contact Safewaze for any additional questions.
- Only Safewaze, or entities authorized in writing by Safewaze, may make repairs to Safewaze fall protection equipment.
- Record all important product information below prior to use. Documentation of all Competent Person annual inspections is required in the Inspection Log.

INTRODUCTION

Thank you for purchasing a Safewaze Sliding Beam Anchor. 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. Every user must be trained in the inspection, installation, operation, and proper usage of the anchor.

US	SER INFORMATION	
Date of First Use:		
Serial Number:		
Trainer:		
User:		

WORKER CLASSIFICATIONS

Read and understand the definitions of those who work in proximity of, or may be exposed to, fall hazards:

 Qualified Person: "Qualified Person" means one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated their ability to solve or resolve problems relating to the subject matter, the work, or the project.

 Competent Person: "Competent Person" means one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

 Authorized Person: "Authorized Person" means a person approved or assigned by the employer to perform a specific type of duty or duties, or to be at a specific location or locations, at the jobsite.

It is the responsibility of a Qualified or Competent Person to supervise the jobsite and ensure safety regulations are complied with.

LIMITATIONS

Always select a lanyard and anchor point location that limits free fall and swing fall as much as possible. A free fall of more than 6 ft. could cause excessive arrest forces that could result in serious injury or death.

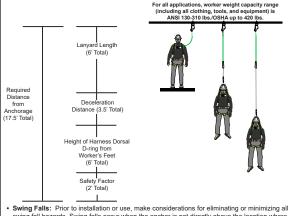
The Sliding Beam Anchor has a maximum capacity of ANSI 310 lbs. (140.6 kg) and OSHA 420 lbs. (190.51 kg) including any tools, clothing, accessories, etc., unless otherwise rated by Safewaze.

Anchorages for the attachment of a Personal Fall Arrest System shall support a minimum 5,000 lbs. (22 kN) or be designed with a safety factor of two to one by a Qualified Person.

 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 (Figure 1).

FIGURE 1: FALL CLEARANCE DIAGRAM

*This diagram is an example of fall clearance calculation ONLY



 Wing rails: Prior to installation of use, make considerations for eliminating or minimizing an swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. Always work as close to, or 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 (Figure 2).



SPECIFIC ANCHOR APPLICATIONS

The FS860 is not for use in vertical applications or for Horizontal Lifelines.

<u>Personal Fall Arrest</u>: Safewaze Anchors are designed as an anchor point to support a maximum of 1 PFAS when utilized for fall protection applications. The structure to which the anchor is attached must withstand loads applied in the directions permitted by the system of at least 5,000 lbs. (22 kN). Maximum allowable free fall is 6' ft.

Restraint: Safewaze Anchors are authorized for use in Restraint applications. The structure to which the anchor is attached must withstand loads applied in the directions permitted by the system of at least 1,000 lbs. NO free fall is permitted. Restraint systems may only be used on surfaces with slopes up to 4/12 (vertical/horizontal). For Restraint applications, the allowable attachment points to the harness are Dorsal, Front/Sternal, Side, and Shoulder D-rings.

Work Positioning: Safewaze Anchors are authorized for use in Work Positioning applications. Work Positioning allows a worker to be supported during suspension while freeing both hands to conduct work operations. The structure to which the Anchor is attached must withstand loads applied in the directions permitted by the system of at least 3,000 lbs. Maximum allowable free fall is 2 ft. For positioning applications, the allowable attachment points to the harness are the Side D-rings.

Rescue/Confined Space: Safewaze Anchors are authorized for use in Rescue/ Confined Space applications. Rescue systems are utilized to safely recover a worker from a confined location or after exposure to a fall. Composition of rescue systems can vary based upon the type of rescue involved. The structure to which the Anchor is attached must withstand loads applied in the directions permitted by the system of at least 3,100 lbs. NO free fall is permitted. For rescue applications, the allowable attachment points to the harness are Dorsal, Front/Sternal, and Shoulder D-rings.

ANCHORAGE

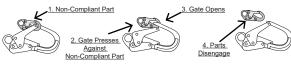
An anchorage location selected for a Personal Fall Arrest System (PFAS) must have a strength capable of sustaining a static load applied in the direction permitted by the PFAS of at least: • Two times the maximum arrest force permitted when certification exists, or

5.000 lbs. (22kN) in the absence of certification

COMPATIBILITY OF COMPONENTS/CONNECTORS

- Safewaze equipment is designed for, and tested with, associated Safewaze components or systems. If substitutions or replacements are made, ensure all components meet the applicable ANSI requirements. Read and follow manufacturer's instructions for all components and subsystems in your PFAS. Not following this guidance may jeopardize compatibility of
- equipment and possibly affect the safety and reliability of the system. 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 kN).
- Connectors must be compatible with the anchorage or other system components.
- Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage (Figure 3).
- · Connectors must be compatible in size, shape, and strength.
- Self-locking snap hooks and carabiners are required by OSHA guidelines.
- Some specialty connectors have additional requirements. Contact Safewaze if you have any questions about compatibility.

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 gale of the snap hook or carabiner. When force is applied, the gale 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.

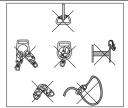
Safewaze connectors (hooks, carabiners, and D-rings) are designed to be used only as specified in each product's manual. See Figure 4 for examples of inappropriate connections. Do not connect snap hooks and carabiners:

- 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).
- 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.

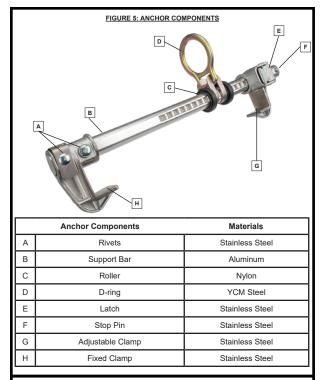
FIGURE 4: INAPPROPRIATE CONNECTIONS



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 bit. (16 kN) gate

SPECIFICATIONS

- Capacity: The FS860 Beam Anchor is designed to provide a fall protection anchorage for a single user with a maximum weight of 420 lbs.
- The center positioning retainer prevents jambing on beam.
- The anchor fits beams 3.5" to 14" with flanges up to 1-1/4".
- Overall length of the anchor is 19".
- Minimum breaking strength is 5,000 lbs.



INSTALLATION PLANNING

- The user should confirm pre-use operation of the anchor by sliding the Adjustable Clamp
 from the inner most adjustment to outer most adjustment of the Support Bar.
- Move the Adjustable Clamp toward the Fixed Clamp and check to see that the Latch engages by pulling back on the Adjustable Clamp and confirming that it locks in place at each of the Ratchet Notches.
- The user should confirm no parts are missing, such as any Rivets, the Stop Pin, or the Labeling.
- The Labeling should be inspected to ensure it is present and fully legible.
 The user should look through the Spring Inspection Ports to inspect the Latch Springs for
- their presence, and for damage or malfunction.
- If the inspection indicates any defects, the anchor must be removed from service.

INSTALLATION

 Locate a structural steel beam flange capable of withstanding a 5,000 lb. static load or meeting OSHA 1926.502 requirements for a safety factor of two to one. The anchor may be attached to a flange located on the top, bottom, or side of the beam.

2. Push in on the Latch handle to allow the Adjustable Clamp to move.

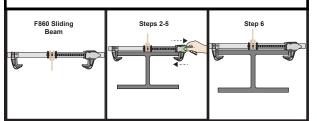
3. Fit the Clamps over the edges of the beam flange, keeping the unit perpendicular to the beam.

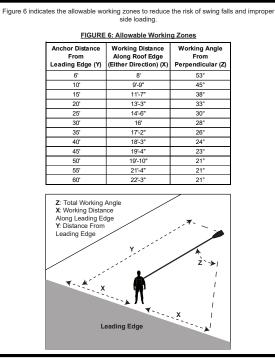
4. Slide the Adjustable Clamp so that both Clamps are snug against the beam flange.

5. Pull back on the Adjustable Clamp to ensure that the Ratchet Teeth are fully seated in the nearest Ratchet Notches.

6. Tug, rock, and twist the anchor to ensure that it cannot come off of the flange.

ALWAYS readjust according to steps 1-6 when moving to a new or different size beam.





INSPECTION

- Safewaze Anchors shall be inspected prior to each use by the user.
- The anchor must be inspected at least annually by a Competent Person other than the user.
- Competent person inspections must be recorded in the inspection log included in this manual and on the inspection grid label on the anchor.
- Severity of conditions during use of anchor may necessitate increased frequency of documented inspections.
- Anchors that fail inspection MUST be removed from service.
- Prior to each use, inspect the anchor for deficiencies or damage including, but not limited to, sharp edges, rough edges, deformations, corrosion, pits, burrs, chemical exposure, extreme heat exposure, and damaged, missing, or illegible labels.
- If any deficiencies or defects are found, the anchor must IMMEDIATELY be removed from service.

WARNINGS

- Users should consult with their doctor to verify ability to safely absorb the forces of a fall arrest event. Fitness level, age, and other health conditions can greatly affect an individuals ability to withstand fall arrest forces.
- Women who are pregnant and individuals considered minors must not use any Safewaze
- equipment.

 Anchors that are exposed to fall arrest forces MUST be IMMEDIATELY removed from
- service and destroyed.
- A preplanned rescue procedure in the event of a fall is required. The rescue plan must be specific to the project. The rescue plan must allow for employees to rescue themselves, or to be promptly rescued by alternative means.
- Harnesses or connectors selected for use with any Safewaze anchor must be compatible in size and configuration. User must ensure compatibility of snap hooks, carabiners, and other connectors. Any connection which could allow disengagement must be eliminated. Snap hooks and carabiners must be self-locking and self-closing and must never be hooked to each other.
- A Competent Person must conduct an analysis of the workplace and anticipate where workers will be conducting their duties, the route they will take to reach their work, and the existing and potential fall hazards they may be exposed to. The Competent Person must choose the fall protection equipment to be utilized.
- Equipment designated for fall protection must never be used to lift, hang, support, or hoist tools or equipment unless specifically certified for such use.

MAINTENANCE

The anchor can be cleaned with water and mild scap if necessary. The user should remove all dirt, possible corrosives, and contaminants from the anchor prior to, and after, each use. Never use any type of corrosive substance to clean the anchor.

Excess water should be blown out with compressed air. Hardware can be wiped off with a clean, dry cloth.

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When not in use, store the anchor in a cool, dry area where it will not be exposed to extreme light, extreme heat, excessive moisture, or possibly corrosive chemicals or materials.

Do not store anchor if wet or damp. Allow anchor to fully dry before being stored.

LABELS

IN

	SAFEWAZE 225 Wilshire Ave. SW		MODEL #: F\$860 US PAT DESCRIPTION: Sliding Beam Anchor 696223 MFG DATE: 3/2023 7111707 MATERIAI S. Slainless Steel steel zin: & aluminum blainna alum									23 107
Concord, I (800) 23 www.safev 6 44216	Concord, NC 28025 (800) 230-0319 www.safewaze.com		-MATERIALS: Stainless Steel, steel, zinc & aluminum plating, aluminum polymer -MAX WEIGHT CAPACITY: ANSI, 130-310 lbs. (58.96-140.61 kg) OSHA, up to 420 lbs. (190.5 kg) -MINIMUM BREAKING STRENGTH: 5000 lbs. / 22.25 kN -MAXIMUM 1 CONNECTON PER ANCHOR Meets: ANSI Z359.1 & A10.32, OSHA 1926.502 & 1910.140									
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