022-4092 and 022-4094 **TileLink Roof Anchor Manual**

APPLICABLE SAFETY STANDARDS

When used according to instructions, Safewaze Anchors meet OSHA 1926.502, 1910.140, and 1910.66 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).

∆WARNING:

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 022-4092/022-4094 roof anchor and all equipment used in conjunction with 022-4092/022-4094. 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!

AIMPORTANT:

- 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.

SPECIFICATIONS

- Capacity: The TileLink Roof Anchor is designed to provide a fall protection anchorage for a single user with a maximum weight of 130 to 310 lbs. (59-141 kg) including any tools, clothing,
- 022-4092's fasteners are screws and 022-4094's fasteners are rivets.
- Temporary and permanent installation options
- . Minimum Breaking Strength (MBS) is 3,600 lbs. (16 kN)

INTRODUCTION

Thank you for purchasing a Safewaze TileLink Roof 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.

|--|

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 Engineer: "Qualified Engineer" means a person with a Bachelor of Science in Engineering degree from an accredited college or university. They are able to assume personal responsibility for the development and application of engineering science and knowledge in the design, construction, use, and maintenance of their projects

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,

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

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 Person or Engineer to supervise the jobsite and ensure safety regulations are complied with

LIMITATIONS

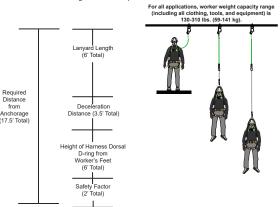
Always select a lanyard and anchor point location that limits free fall and swing fall as much as possible. A free fall of more than 6 ft, could cause excessive arrest forces that could result in

Anchorages for the attachment of a Personal Fall Arrest System shall support a minimum 3,600 lbs. (16 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.



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, 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).

FIGURE 2: SWING FALL



ANCHORAGE INSTALLATION LOCATION

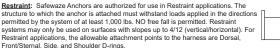
A Qualified Person or Engineer must conduct an analysis of the workplace and anticipate where workers will be performing their duties. An anchorage location selected for a Personal Fall Arrest System (PFAS) must have a strength capable of sustaining a static load applied in the direction permitted by the PFAS of at least:

- · Two times the maximum arrest force permitted when certification exists, or
- . 3,600 lbs. (16 kN) or be designed with a safety factor of two to one in the absence of

ALLOWED ANCHOR APPLICATIONS

The TileLink Anchor is not for use in lifting, rappelling, or Horizontal Lifeline applications

Personal Fall Arrest: 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) or be designed with a safety factor of two to one. Maximum allowable freefall is based on the connector used.





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



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.
- 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 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

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.

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.

Weheite: cafewaze com

Address: 225 Wilshire Ave SW, Concord, NC 28025 Phone: 800-230-0319

V2. 2023 Copyright Safewaze: 220-00096

Fax: 704-262-9051

Email: info@safewaze.com

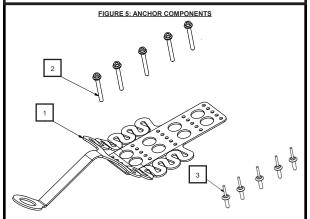
MAKING CONNECTIONS CONTINUED

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





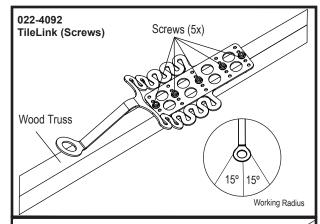
	Anchor Components	Materials
1	Anchor Plate	Stainless Steel
2	Screws (022-4092)	Galvanized Steel
3	Rivets (022-4094)	Aluminum

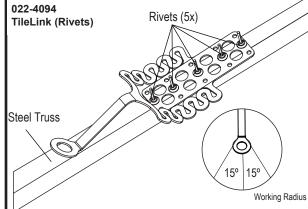
PRIOR TO INSTALLATION

- · The user should confirm no parts are missing, such as the screws or rivets.
- The Labeling should be inspected to ensure it is present and fully legible.
- If the inspection indicates any defects, the anchor must be removed from service.
- The TileLink Anchor has two energy absorbing regions and two stabilizing joins. If these
 energy absorbing regions are expanded or deformed, or if either of the joins are broken, the
 anchor has arrested a fall and should be immediately removed from service.
- · The eyelet should be straight and in line with the anchor. If the eyelet is distorted or de-
- formed, the anchor has arrested a fall and should be immediately removed from service.
- Remove the roof tiles in the desired anchorage location to expose the truss beneath the tiles.
 A Qualified Person or Engineer must ensure the truss is strong enough to support the anchor
- point.
- Inspect the truss for splits, cracks, knots, and insect damage prior to installing the anchor.

INSTALLATION

- The TileLink Anchor is best suited for use on roof pitches of 7/12. For roof pitches greater than 7/12, the anchor should be used in conjunction with other access methods to ensure there is no live loading of the anchor. Place the anchor on the truss. Adjust the anchor plate to suit the profile of the roof.
- Choose one of the 3 or 5 rows of holes that best centers the anchor on the truss.
- · Install the anchor using five screws or rivets in the same row
- The pilot holes must be drilled into the truss the full length of each screw or rivet to avoid splitting the timber of the truss.
- Replace the roof tiles and add silicone in between the tiles.





MAINTENANCE

- The anchor can be cleaned with water and mild soap 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.
- . Do not store anchor if wet or damp. Allow anchor to fully dry before being stored.
- 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.

WARNINGS

- Users should consult with their doctor to verify ability to safely absorb the forces of a fall
- 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 be promptly rescued by
- 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 exosed 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.

INSPECTION

- Safewaze Anchors should be inspected prior to each use by the user and 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 the anchor may necessitate increased frequency of documented inspections.
- 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.

LABELS



MUST DE INSPECTED BEFORE EACH USE:
MUST DE INSPECTED BY A COMPETENT PERSON AT LEAST
ANNUALLY FROM MEG DATE:
ANY UNIT THAT HAS BEEN SUBJECTED TO FALL ARREST
FORCES MUST DE REMOVED FROM SERVICE.
MINIMUM BREAKING STRENGTH (MBS): 3,800 lbs. / 16kN

Mee

022-4092 022-4094
TileLink TileLink (Rivets)

Max Anchor Deformation in a Fall
Event = 9 in.

ISE. Capacity: 130-310 lbs. (59-141 kg) including clothing, tools, etc.

TO FALLARREST Materials: Stainless Steel

Materials: Stainless Steel
Meets: OSHA 1926.502, 1910.140, 1910.66

AWARNING THIS COUPMENT IS
DESIGNED FOR USE AS AFALL
PROTECTION ANGHOR, USER MUST
READ AND FOLOW INSTRUCTIONS THE
OF SUPMENT IF ALL USE TO DO SO MAY
RESULT IN SECROUS INJURY OR DEATH
AVOID CONTACT WITH HAZARDS
INCLUDING BUT NOT LIMITED TO, HEAT,
OF SUPMENT IF ALL USE TO DO SO MAY
RESULT IN SECROUS INJURY OR DEATH
AVOID CONTACT WITH HAZARDS
INCLUDING BUT NOT LIMITED TO, HEAT,
OF SIMCALS, ELECTRICITY, AND SHARP
MAKE CAN Y COMPARISE
CONNECTIONS. REFER TO
INSTRUCTIONS REFER TO
INSTRUCTIONS FOR APPROPRIATE
INSTRUCTIONS METHOD

INSTRUCTIONS METHOD

INSTRUCTIONS FOR APPROPRIATE
INSTRUCTIONS METHOD

Installation Instructions:

- ECTION LOG

 1.) Remove the roof tiles in desired location to expose the truss. Place TileLink on truss.
 2.) Before installation, adjust the plate to
 - Defore installation, adjust the plate is uit the profile of the roof.
 S.) Choose one of the 3 or 5 rows that best centers the anchor on the truss.
 A.) Install using five (5) screws or rivets.
 - in the same row.
 5.) Replace the roof tiles and add silicone in between the tiles

INSPECTION LOG

SAFE	WAZE		INSPECTION ANNUAL
Inspection Date:	Inspector:	Pass/Fail:	Comments/ Corrective Action:

Website: safewaze.com Address: 225 Wilshire Ave SW, Concord, NC 28025 Phone: 800-230-0319