

2 | Introduction

3 Synthetic Safety Climb Overview

4 Safety Climb Systems Overview & Information

5 Custom Kits

5 Top Bracket & Travel8

6 Technical & Warranty

7 Safety Climb Tag & Terms & Conditions

8-9 Technical Drawings

10 Operations & Maintenance

11 Ladder Mount Kit

12 Safety Climb Accessories Replacement Parts

13-20 Synthetic Assembly Dynamic Drop Test

21-23 Synthetic Assembly Static Test





To whom it may concern	ro wno	om it	may	concerr	1:
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I would like to formally submit Allfasteners' Safety Climb System for approval and use with communication towers and elevated structures. This system meets the requirements of ANSI/TIA-222-H, ANSI A14.3-2018, and ANSI Z359.16. Please reach out to myself should you have any questions regarding the systems submitted or individual products.

Sincerely,

**Tony Carmichael** | Operations Manager











#### SYNTHETIC SAFETY CLIMB OVERVIEW

Designed with a focus on the broadcast tower industry, the new Synthetic Safety Climb from Allfasteners are made from a nonmetallic synthetic fiber strand with an external sleeve built for UV protection.

Unlike steel assemblies that can arc causing interference or burn through the cables, this new system does not arc, and does not interfere with RF frequencies on the broadcast tower. The new system has been put to the test and is ready to improve the industry!



#### **BENEFITS**

- Light weight
- Durable UV resistant outer layer
- Meets ANSI and OSHA standard 5,000lb
- Can be ordered in 10ft increments.
- Systems up to 500ft available. Multiple systems can be used for taller structures.
- Quick ship in 2-3 business days

#### **CABLE GRAB INCLUDED**

Designed to provide safety while ascending and descending from a vertical structure, Allfasteners' Cable Grabs are the ideal fall protection product.

#### **IMPORTANT**

Each synthetic safety climb system includes a synthetic rope grab, which should remain on the system at all times for appropriate use.



Part#: 14RG-1200











#### **OVERVIEW & INFORMATION**

**AF Safety Climb Systems** offer the premier vertical lifeline system for towers, poles and other permanent structures to maximize safety, climbing mobility and productivity, all with a focus on longevity and minimizing field maintenance requirements.

#### **SAFETY CLIMB, ENSURING SAFETY**

Safety is our focus, which is why we use the Travel8 energy absorber exclusively. Tested to all relevant ANSI and TIA-222 standards, our energy absorber is rated for multiple fall events for up to four climbers and provides unmatched visibility from the ground for deployment inspection. We understand that safety climb systems need to withstand the elements for extended periods of time in an adverse environment, which is why all our systems are manufactured with UV resistant composite and hot dip galvanized components

#### WHY CHOOSE AF SAFETY CLIMB?

- Adaptability. No need to worry about parts not accommodating a variety of tower types, tower heights, and existing hardware, mounts, or obstructions on the tower.
- Customizable or standard. You choose the buying method that works best for you, whether it's standard kits, customized kits, or individual components.
- Buy online. No need to compile lists of information and wait for a
  quote. Just select the items you need to get the job done.
- Made in USA. All our systems are fabricated and assembled in the US with our proprietary Australian made Travel8 energy absorber.
- Special solutions. If we don't have a component to fit a one off application, we'll design, engineer, and manufacture it in-house in our fabrication facility.
- Contractor feedback welcomed. We listen to our customers and are always looking for ways to continually improve our safety climb system capabilities and design.



ALL SAFETY CLIMB SYSTEMS HAVE BEEN FULLY TESTED.











#### **CUSTOM KITS**

#### **BUILDING A CUSTOM KIT**

Need something more specific for your jobsite or tower type?

Allfasteners now offers the ability to create custom kits to adhere to most tower specifications. **Allfasteners.com custom safety climb module** shows how your kit will come together as you select from hundreds of product combinations.

#### **BENEFITS**

- Ability to quote all the materials needed to complete a specific job or all jobs at once
- Ease of previewing the parts included in your kit
- "Save as you go" feature allows you to continuously add products to your custom kit up to the moment of purchase





#### **TOP BRACKET & TRAVEL8**

#### **TOP HEAD BRACKET & TRAVEL8**

- The Travel8 swivels and pivots, allowing for clearance of obstructions.
- AF's Safety Climb has over 15 degree of swivel capabilities.

#### **POLE MOUNT TOP BRACKETS**

Multiple bolt holes allow for top bracket to be customized or adapted to each tower.





#### AF MODULAR ADVANTAGE

 AF's safety climb assembly is modular, meaning parts are available to accommodate a variety of tower types, tower heights, and existing hardware, mounts and obstructions on the tower.











#### **TECHNICAL**

#### **FALL CLEARANCE**

There must be sufficient clearance below the user to arrest a fall before the user strikes the ground or another lower level hazard. The clearance required is dependent on the following factors and analyzed by competent climber.

- Elevation of anchorage
- Anchorage deflection
- Lanyard elongation on deceleration pull out (personal energy absorber)
- Lanyard length
- Operator height
- Fall distance residual clearance

Don't risk it...check from the ground before you climb. If the Energy Absorber System is deployed, **do not climb!** 



#### **SYSTEM REQUIREMENTS**

The worker must wear a full body harness when connected to any fall arrest system including a personal energy absorber compliant with the relevant ANSI Standards.

#### **TECHNICAL SPECIFICATIONS**

#### **SYSTEM TYPE**

Allfasteners Safety Climb

#### **COMPLIANCE**

AF Safety Climb conforms to ANSI A14.3-2009.

#### **PRODUCT WARRANTY**

3 years from date of purchase subject to correct installation, use and maintenance in accordance with manufacturer's specifications and recommendations. (Refer to instruction manual.)

#### **IMPORTANT NOTE**

Failure to supply and/or install proprietary product in accordance with above standards and codes, specifications and instructions voids complete system certification and/or warranty.

### WARRANTY

#### WARRANTY PERIOD ON THIS SYSTEM - 3 YEARS FROM DATE OF PURCHASE.

Warranty on full system is for 3 years from date of purchase. Travel 8 Top Bracket Energy Absorber comes with a 5 year warranty from date of purchase. Warranty does not include general wear and tear and is subject to approval/inspection by manufacturer.

#### Should you have a warranty claim as a result of a defect the following procedure must be followed:

#### Identify the following information:

- The product/system name and code number.
- The date of purchase/installation.
- Installation company details.
- The installation identification number.
- The name of the company using this system.

#### **TECHNICAL DATA**

#### **Dimensions**

- Energy absorber 5" (static length), 16" (deployed length) in the event of a fall
- Vertical line wire rope 1/2" synthetic rope

#### Materials

Synthetic wire rope

- A description of the defect/warranty claim.
- The periodic system maintenance report.
- DO NOT proof load over 350lbs.

Forward the above information to sales@allfasteners.com or contact 888.859.6060.









#### SAFETY CLIMB METAL TAG

Allfasteners requires our "Safety Climb Tag" to be included in your installation process.

This tag is to be attached to the wire rope at the base of the structure, before installation is complete.

Before attaching tag, installation date will need to be completed by installer using a heavy duty permanent marker. See circled area to the left for location.

Allfasteners suggests a permanent marker with fade and weather resistant qualities, such as the example shown to the right.

Our AF reps are available to answer any questions you have on this process and suggested tips.





## TERMS & CONDITIONS (SPECIFIC TO THE SAFETY CLIMB - ALL OTHER TERMS & CONDITIONS PER AF STANDARD AGREEMENT)

- All warranty claims must be made in writing within 14 days of the appearance of the defect.
- Incorrect installation or modifications performed by a non accredited AF system installer will void all warranty rights.
- Systems that have been installed using non proprietary equipment will void all warranties.
- Systems used by incompetent persons or use with non compatible accessories ie. harness gear, lanyards, travellers, fall arrestors etc. will void warranty.
- Systems/components used for purposes other than their intended use will void warranty.
- General wear and tear is expected and will depend on the frequency of use and is not covered by warranty.

#### **DISCLAIMER**

All product specifications and technical descriptions, recommendations and other information provided, are given as general guidance and advice, and are to be read in conjunction with AF installation instructions and any other data available and applicable to each particular standard product or system. Use of such data is however the user's sole responsibility, taking into account the intended application and actual conditions existing on the particular worksite. Consequent selection of the right product for any particular use, remains the user's ultimate responsibility. AF is therefore not obligated or liable for any direct or indirect, incidental or consequential damages, losses or expenses in connection with, or by reason of the suitability and use of or otherwise, any product or system for any purpose. Implied warranties of merchantability or fitness for any particular purpose, are specifically excluded. All AF products must be installed and used by competent personnel trained in the selection, safe use and maintenance of fall arrest systems and equipment by a certified training organization. Installation not in accordance with AF requirements or the use of non AF components will void all certification and warranties. Suitability of support structure and design layout of system is the responsibility of the installer and should be verified by a competent person trained by a certified training organization in the selection, safe use and maintenance of fall arrest systems and equipment or approved by a structural engineer to ensure conformance. AF maintains a policy of continuous improvement and development, and therefore reserves the right to modify, amend or other wise alter product and system designs and specifications, models and part numbers, colors and pricing etc without prior notice. Errors and omissions are excepted, and Allfasteners accepts no liability for incorrect information, errors or omissions. \* Drawings and information subject to change.

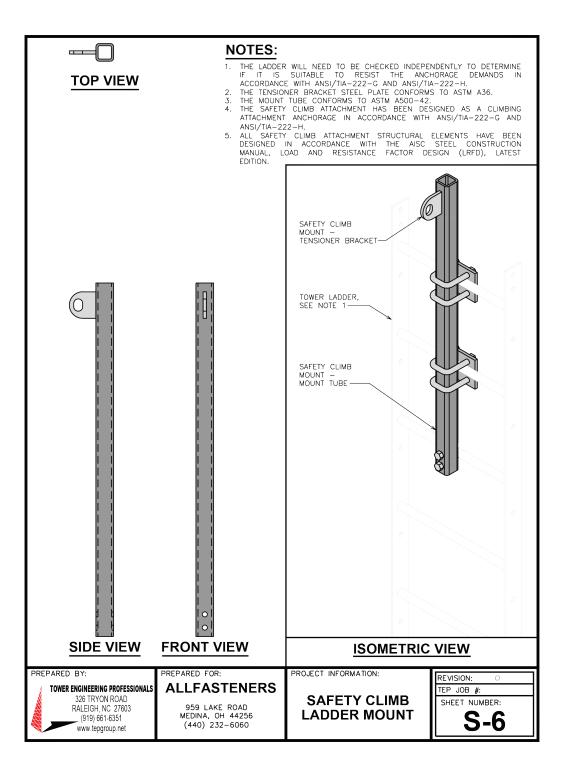




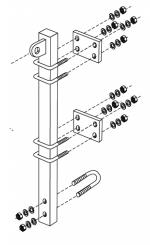




#### **TECHNICAL DRAWINGS**



## LADDER SAFETY CLIMB MOUNT



For full product description and installation drawings see page xx.

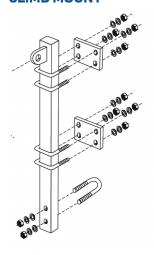
Drawings may differ but application is the same



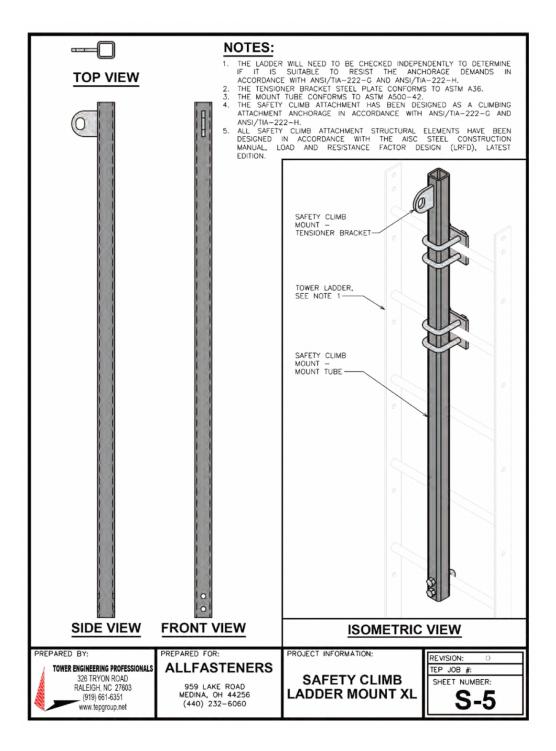


#### **TECHNICAL DRAWINGS**

#### **LADDER SAFETY CLIMB MOUNT**



For full product description and installation drawings see page xx. Drawings may differ but application is the same.









#### **OPERATIONS** MUST BE READ PRIOR TO USE

- 1. Prior to use, ensure all operating procedures have been read and understood.
- 2. This fall arrest system is only to be used by competent climbers who have experience and training in the safe use of the system and associated equipment.
- 3. Ensure all workplace OSHA requirements are identified and understood. A job hazard assessment with a safe work method ANSI/ASSE A10.48 must be completed and approved by management prior to work commencing.
- 4. This system requires periodic inspection and maintenance by a competent person.
- 5. Authorization to access any risk area must be obtained from the person in control of the worksite
- 6. Only approved full body harness, gear and equipment with energy absorber certified to ANSI 359, to be used with this system.
- 7. Visually inspect the system for damage prior to use. System must not be used if there is any deterioration or deformation of any components or structure to which the system is attached.
- 8. If the safety system is damaged or has arrested a fall, discontinue use until it has been fully inspected and re-certified by a competent person.
- 9. Ensure all fixings, fittings and components are securely attached. Any tightening and replacement of components must be carried out by a competent person.
- 10. Persons must not be allowed to work alone in fall arrest situations in case emergency rescue assistance or first aid is required.
- 11. All applicable ANSI Standards, OHSA Acts & Regulations, and Codes of Practice & Guidelines must be read and obeyed when using this safety system.
- 12. This user manual does not in any way, does not replace the need for competent/authorized climber. Failure to follow all warnings, usage and maintenance instructions may result in serious injury or death.

#### **MAINTENANCE**

- 1. This system needs to be checked and re-certified by a competent person according to ANSI requirements.
- 2. Never clean using acids or other chemicals that could damage the system components.
- 3. The identification/certification label must be completed confirming maintenance and recertification of the system.
- 4. Any deterioration or damage to the system or equipment must be reported to the person in control of the worksite and relevant corrective action undertaken.
- 5. Maintenance inspections must be clearly documented. Any non-conformance must be clearly identified and tagged 'Do Not Use' until corrective action by a competent person has been completed.

#### System Maintenance Checklists are located on individual product pages.

The checklists mentioned above, outlines key checking criteria required to ensure the safe use of this system. Any item of concern not shown on the checklist must be noted on the maintenance report and brought to the attention of the tower owner.

Items checked PASS- YES means they conform with the required checking criteria and are suitable for normal use.

Item checked PASS - **NO** means they do not conform to the required checking criteria. These items must be clearly tagged 'Do Not Use' and the required corrective actions put in place. The maintenance report must clearly document all non-conforming criteria.

This system must be maintained by a person trained in the safe use and maintenance of this system.

#### This section is to define the maintenance and condition assessment requirements of a synthetic rope safety climb.

The synthetic rope safety climb is considered an appurtenance and therefore maintenance and condition assessments shall occur in accordance with recommended ANSI/TIA-222 intervals or tower owner/EOR recommendations, who may shorten or lengthen ANSI/TIA-222 intervals based upon an established maintenance and condition program.

If deficiencies, outside of routine maintenance or manufacturer specifications, are found in any of the synthetic rope safety climb components, the manufacturer of the synthetic rope safety climb or tower owner/EOR shall be consulted for corrective action.

For questions associated with the ANSI/TIA-222 antenna supporting structure, including climbing facilities and appurtenance connections, communication shall occur with the tower owner/EOR.

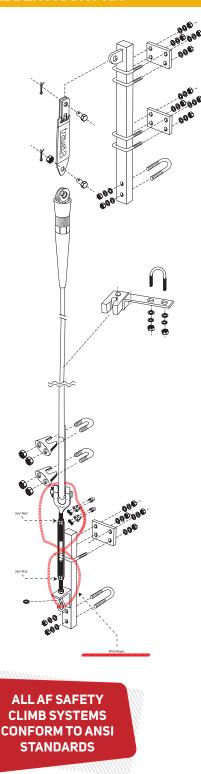




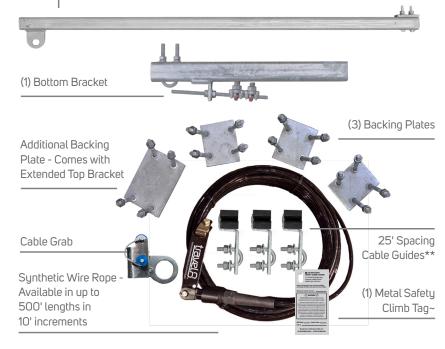


# ALL**FASTENERS**

#### **LADDER MOUNT KIT**



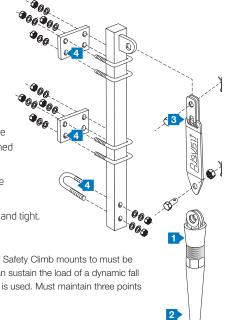
(1) Top Bracket - Available in standard (40") or extended (60") length\*



- \* Additional parts may be required.
- $^{\star\star}$  Cable Guide quantity is determined by tower type and should be positioned every 30' on tower.
- ~ See Instruction booklet for guidance for completing & attaching safety climb tag

#### SYSTEM MAINTENANCE **CHECKLIST**

- 1. Ensure that the wire rope swaged to the safety climb is in serviceable condition.
- 2. A) Must be no evidence of wear, kinks, cuts, abrasions, fraying, or corrosion on the synthetic cable . B) Cable must be tensioned correctly and free of grime and dirt.
- 3. Make sure energy absorber bolt is in place and lock nut is snug and tight.
- 4. Make sure all mounting bolts are in place and tight.
- \* Please note that any existing ladder that the AF Safety Climb mounts to must be analyzed by the relevant EOR to ensure that it can sustain the load of a dynamic fall on the safety climb after installation and before it is used. Must maintain three points for connection.





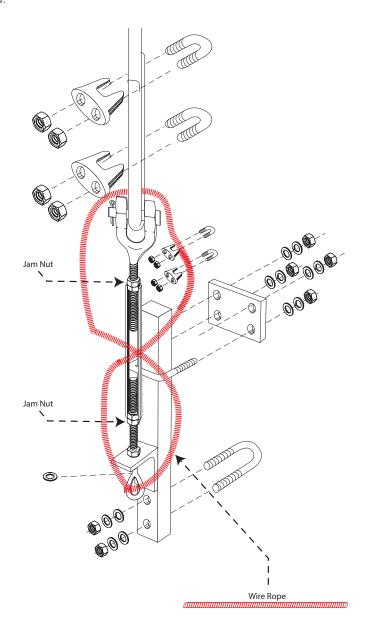




#### **BOTTOM BRACKET: CLOSER LOOK**

Alllfasteners synthetic safety climb system requires a unique bottom bracket assembly as shown in the drawing on the left.

Finished installation can be seen below.



ALL AF SAFETY CLIMB SYSTEMS CONFORM TO ANSI STANDARDS









#### **ACCESSORIES & REPLACEMENT PARTS**

#### **Ladder Mount Bottom Bracket**

Used in ladder and face mount safety climb systems.

Part #14AFLMBB01

GAL



#### Face Mount Backing Plate

Used in 60" ladder mount safety climb systems

Part #14AFLMKTB01-EXT

GAL



#### **Ladder Mount Backing Plate**

Works with top and bottom ladder mount brackets.

Part #14AFLMKTB01

GAL



#### **Head Extension Plate**

Extension plate for monopole & leg mount safety climb systems

Part #14HEP

GAL



#### **Head Extension Bracket**

Extension bracket for square tube head connection

Part #14HEP-2

GAL



#### **U-Bolt Cable Guide**

U-bolt style intermediate bracket for ladder mount safety climb.

Part #14AFLMIB01S

GAL



#### Step Bolt Tie Off Bracket

45 Degree, Yellow.

Part #14STO34



#### **Climbing Ladder** Hardware Kit

See AF tower catalog for exact contents

Part #14HDCLKIT

GAL



#### Ladder Mount Head Bracket - 40"

40" Standard length bracket

Part #14LMHB01

GAL



#### Synthetic Cable Assembly

Available in lengths up to 500' in 10' increments.

Ask a Sales Rep for a Part#



#### Climbing Ladder -10 ft. Heavy Duty

With splice hardware - 18" wide

Part #14HDCL10FT

GAL

#### Climbing Ladder -10 ft. Light Duty

With splice hardware - 12" wide

Part #14LDCL10FT

Headquarters

GAL



#### Ladder Mount Head Bracket - 60"

40" Length for ladder & face mounts

Part #14LMHB01-60

GAL



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