

ANCHOR DEVICES USER'S INSTRUCTION MANUAL

PLEASE NOTE: This manual meets the "Manufacturer's Instructions" requirements of ANSI A10.14 - 1991 and ANSI Z359.1 - 1992. It should be read completely and used as part of the User's Training Program as required by OSHA (1910.66, Appendix C).

WARNING

This is a design-compatible component of a comprehensive Fall Tech™ Personal Fall Arrest or Fall Restraint System. **AS A USER, YOU MUST READ AND FOLLOW THE MANUFACTURER'S INSTRUCTIONS, LABELS AND WARNINGS** for each component part of the complete system before using it.

If you do not understand the Instructions, Labels and Warnings for the use and maintenance of this component, have them explained to you.

ANY MISUSE OF THIS COMPONENT, ANY ALTERATION OR MODIFICATION OF IT, OR FAILURE TO PROPERLY FOLLOW THESE USER'S INSTRUCTIONS, MAY RESULT IN SERIOUS INJURY OR DEATH.

ATENCION: TODAS LAS PERSONAS QUE USEN ESTE EQUIPO DEBERAN LEER Y COMPRENDER O TENER A ALGUIEN QUE LES EXPLIQUE LAS SIGUIENTES INSTRUCCIONES ANTES DE USARLO. EN CASO CONTRARIO SE PODRIAN PRODUCIR LESIONES GRAVES O MORTALES.

ATTENTION: LIRE ET BIEN COMPRENDRE OU SE FAIRE RECITER LES INSTRUCTIONS AVANT DE SE SERVIR DE CETTE APPAREIL. SINON LA BLESSURE GRAVE OU LA MORT PEUT ON RESULTE.

ACHTUNG: ALLE BENUTZER DIESES GERATES MÜSSEN DIE ANLEITUNGEN VOLLSTÄNDIG DURCHLESEN UND VERSTEHEN. NICHTBEACHTUNG KANN SCHWERE ODER TÖDLICHE VERLETZUNGEN ZUR FOLGE HABEN.

ATTENZIONE: E VERAMENTE MOLTO IMPORTANTE, LEGGERE LE ISTRUZIONI E CAPIRE COMPLETAMENTE COME SI DEVE ADOPERARE QUESTO ISTRUMENTO, ALTRIMENTI SI RISCHIA IL PERICOLO DI FARSI MALE SEVERAMENTE, E PUO' RISULTARE ANCHE IN MORTE.

Section 1 - Product Description

FallTech™ Wire Form and Grip Anchors (**FIG. 1A, 1B**) are design-compatible components of a comprehensive Personal Fall Arrest, Fall Restraint, Suspension or Rescue System. They are designed to serve as anchorage points capable of sustaining a minimum static load of 5,000 pounds (22.2 kN), per attached worker. Once properly installed (see **Section 7**), they may be connected to a design-compatible FallTech Carabiner or Lifeline snap hook.

DO NOT USE ANCHOR DEVICES FOR HANGING, HOISTING OR SUPPORTING TOOL AND EQUIPMENT.

Section 2 - Important Do's and Don'ts

NOTE: THE COMPONENTS, MATERIALS AND ANCHORAGE OF A PERSONAL FALL ARREST OR FALL RESTRAINT SYSTEM MUST BE SELECTED BY A QUALIFIED PERSON TO MATCH THE SYSTEM APPLICATION, AND WORKPLACE HAZARDS AND ENVIRONMENT.

DO

Do use this component only with other system-compatible components of a comprehensive personal fall protection or fall restraint system such as those available from FallTech.

Do use this component only in a system which limits free falls to 6 feet or less.

Do use extreme caution when rigging this system.

Do rig this system to avoid the hazards of swing falls.

DON'T

Don't use this component or system to hoist materials.

Don't use this component if it has been exposed to corrosion, chemicals,

excessive heat, flames or physical deformation.

Don't use this component if you are working near high voltage power lines or other energized electrical equipment.

Don't use this system if you are pregnant, a minor, or have reduced tolerance to fall forces by reason of age, physical condition or other pre-existing disorders.

Don't use near moving machinery which may entangle any component of the system.

Don't subject system components to sharp edges or abrasive surfaces. Don't use system if your total combined weight (body, clothing, tools, etc.) exceeds 310 pounds (140 kg).

Don't use this system if there are any signs of excessive wear, or any signs of structural deterioration.

Don't use polypropylene rope with any component of this system.

Don't knot any components of this system. Knotting reduces component strength by 50%.

DON'T USE THIS SYSTEM IF IT HAS BEEN USED TO ARREST A FALL. IF IT HAS BEEN USED TO ARREST A FALL, IT MUST BE REMOVED FROM SERVICE IMMEDIATELY AND DESTROYED.

FIG. 1A WIRE FORM ANCHOR

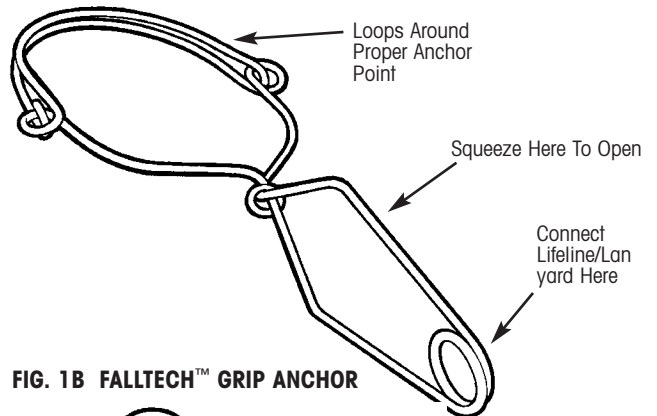


FIG. 1B FALLTECH™ GRIP ANCHOR

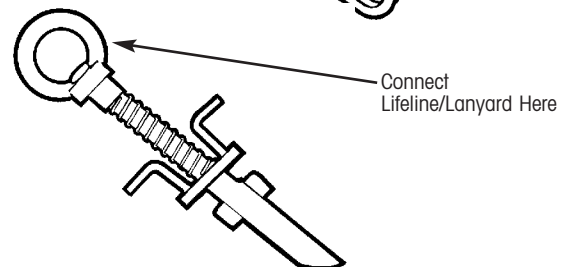


FIG. 1C CONNECTOR PLATE

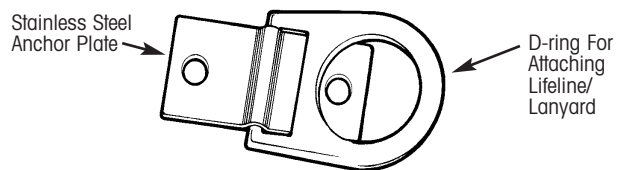
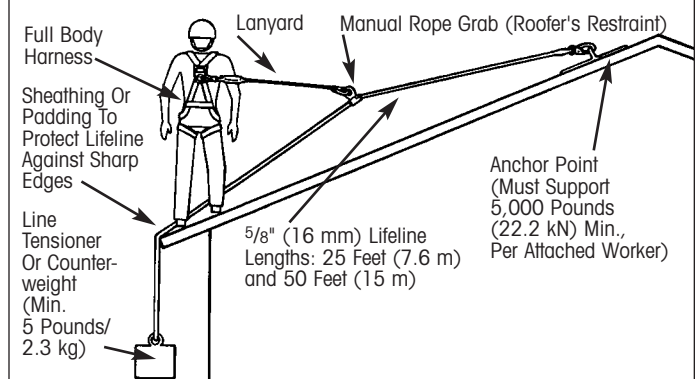


FIG. 2A (Typical Fall Restraint Setup)



Section 3 - ANSI / OSHA Requirements

This FallTech Personal Fall Protection System component fully complies with ANSI Standards A10.14 - 1991 and ANSI Z359.1 - 1992, and all current OSHA requirements for fall arrest and fall restraint in general construction, including 1910.66 Appendix C and 1926.500.

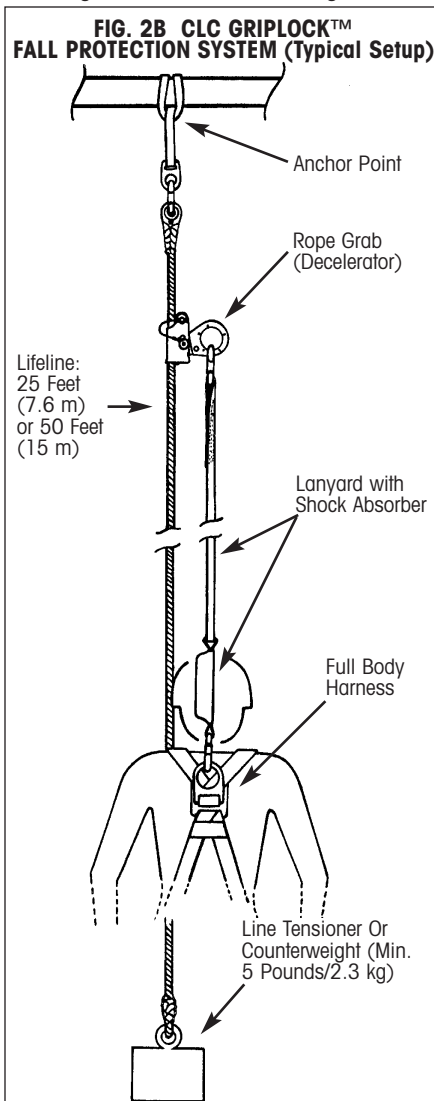
Section 4 - Employer & User Training Responsibilities

OSHA requires that an **EMPLOYER** shall provide a training program for each employee who might be exposed to fall hazards. The program shall teach each employee to recognize the hazards of falling, and train each employee in the procedures to be followed to minimize fall hazards. Prior to work requiring a Personal Fall Arrest System (PFAS) (**FIG. 2A**) or Fall Restraint/Positioning System (**FIG. 2B**), the **USER** shall be trained by a competent person to properly inspect, use, store and maintain this equipment according to the requirements of ANSI Z359.1 - 1992, and the Manufacturer's Instructions.

As part of the training process, the user of these Anchor Devices must:

- 1) Become familiar with ALL instructions printed in this manual;
- 2) Be trained in the correct use and care of this component;
- 3) Be aware of its application limits; and
- 4) Know and understand the consequences of improper use of this component.

NOTE: You must be trained in the use of these Anchor Devices without being subjected to a fall hazard. For best results, Personal Fall Protection System training should be reviewed or repeated at least one per year.



Section 5 - The Fall Protection Plan

As an employer, you must be aware of the factors which affect the safety of your workers before, during and after a fall. Having a Fall Protection Plan ready before work begins is the best way to ensure the ultimate safety and well-being of your employees.

Your Fall Protection Plan Must Include:

- 1) **Proper anchorage.** A PROPERLY SELECTED ANCHORAGE POINT IS CRITICAL TO THE SUCCESS OF A PERSONAL FALL ARREST SYSTEM (PFAS). OSHA 1910.66 APPENDIX C REQUIRES THAT AN ANCHORAGE POINT (structural beam or member) MUST SUPPORT A STATIC LOAD OF 5,000 POUNDS (22.2 kN) — PER PERSON ATTACHED TO THE ANCHORAGE POINT. The anchorage point must be selected to reduce fall hazards, and to avoid worker contact with objects in the fall path (**FIG. 3B**).
- 2) **Limit free fall to 6 ft. (1.8 m) or less.** Users of Personal Fall Protection Systems must not work above the anchorage point. (**FIG. 3B**) The connecting subsystem of one worker (Lifeline, Lanyard, etc.) must not cross or tangle with that of another worker. Connecting subsystems must never be knotted or tied to each other.
- 3) **Positioning/Fall Restraint Only Plan.** When a Rope Grab is attached to a Lifeline for work positioning/ fall restraint purposes

(**FIG. 2A**), only a Manual Rope Grab (which can be locked into a fixed, non-sliding position on the properly anchored Lifeline) may be used. 4) **Minimizing of swing falls.** Anchorage point must be directly above user (**FIG. 3A**).

5) **Fall path clearance check.** The amount of clearance needed is based on the type and length of the connecting subsystem used, and the location of the anchorage. (**FIG. 3B**) Total fall distance is the maximum free fall distance (6 feet/1.8 m) plus the distance the Lanyard shock absorber elongates (max. 3.5 feet/1.1 m). Total fall distance may not exceed 9.5 feet (2.9 m).

6) **Avoidance of sharp edges and other hazards.** You must protect workers by padding or sheathing unprotected sharp edges while work is being done. All workplace hazards must be eliminated, controlled, or considered before any work takes place.

7) **Rescue and evacuation plan.** You must provide a means of rescue and evacuation for workers should a fall occur.

8) **Immediately dispose of equipment which has been subjected to fall arrest forces.**

Section 6 - Visual Inspection Before Each Use

To make sure that this FallTech Anchor Device will perform properly as part of a Personal Fall Arrest or Fall Restraint System, it is important that you visually inspect it BEFORE EACH USE. (This Anchor Device should also be inspected by a competent person other than yourself at least twice a year.)

What to look for when visually inspecting Anchor Devices:

- 1) Look to see that Anchor Device is not cracked, bent or deformed.
- 2) Make sure that Anchor Device is free of excess dirt, paint, oil or other contaminants which could affect its operation.
- 3) If Anchor Device has been subjected to fall arrest (or equivalent) forces, remove it from service immediately and destroy.
- 4) Look to see that all Anchor Device labels and warnings are securely fastened and still legible. Missing or illegible labels and warnings must be replaced by contacting FallTech.
- 5) Look to see that other FallTech Personal Fall Protection System components (Full Body Harnesses, Lanyards, Rope Grabs, Lifelines, etc.) are ready for use by visually inspecting each one according to the User's Instructions provided by the manufacturer with each component part.
- 6) Record the results of your Anchor Device inspection in the Log provided in **Section 11** of this manual.

WARNING

If this Anchor Device is damaged, or has been subjected to fall arrest (or equivalent) forces, it must be removed from service immediately and destroyed.

NOTE: Harsh environments and weather, prolonged use and other extreme working conditions may require you to have this Anchor Device fully inspected by a competent person other than yourself at least twice a year.

Section 7 - How To Install Anchor Devices

WIRE FORM ANCHOR: FallTech Wire Form Anchors (**FIG. 1A**) are designed for attachment to a support member capable of sustaining the minimum static load required for a Personal Fall Arrest or Fall Restraint System — 5,000 pounds (22.2 kN), per attached worker. Grasp the lower portion of the Anchor (below the large loop) and squeeze the two sides tightly together to open up the large top loop. Slip the opened top loop past the support member (pipe or beam), turn 90° and release. Connect a design-compatible Lifeline snap hook or self-locking Carabiner to the smaller formed "eye" on the bottom of the Wire Form Anchor.

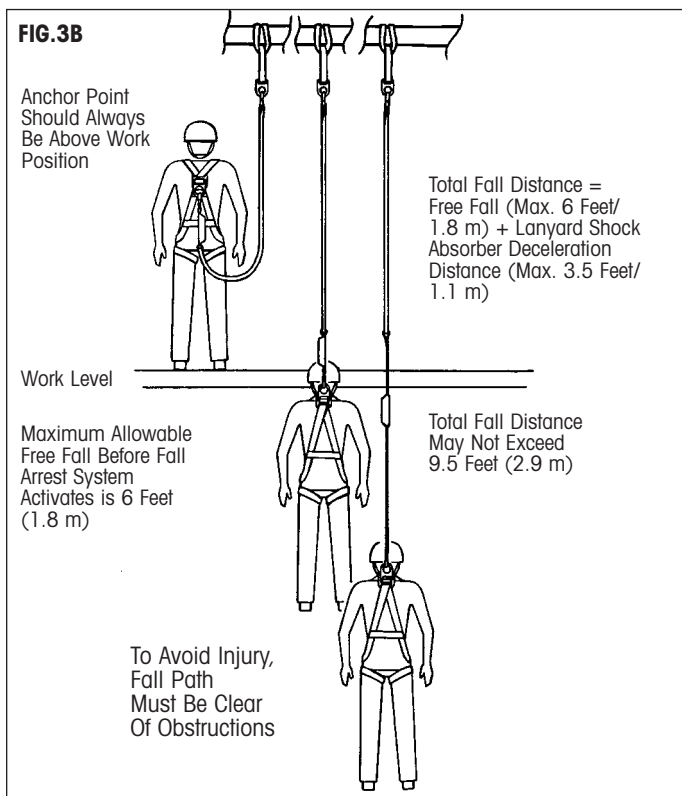
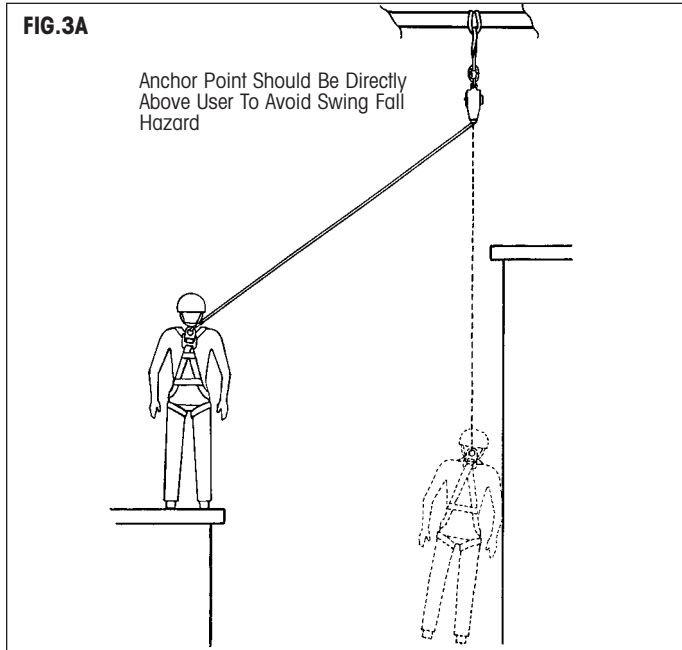
FALLTECH GRIP ANCHOR: FallTech Grip Anchors (**FIG. 1B**) are designed for attachment to a support beam capable of sustaining the minimum static load required for a Personal Fall Arrest or Fall Restraint System — 5,000 pounds (22.2 kN), per attached worker. BEFORE INSTALLING THE ANCHOR, A 3/4" HOLE MUST BE DRILLED THROUGH THE SUPPORT BEAM.

Must be used in vertical applications only. Grasp the Anchor with your thumb in the eye and your fingers on the flanges. Pull together and insert Grip through pre-drilled 3/4" hole in support beam. Release thumb and fingers. The Grip MUST FIT SNUGLY. A too-loose fit may cause the Grip to work itself free causing serious injury or death. Attach a design-compatible Lifeline snap hook or self-locking Carabiner

to the integral O-ring of the Grip Anchor.

FALLTECH CONNECTOR: The FallTech Connector Plate is designed to be used in a variety of applications to provide secure anchorage. Plate must be installed using appropriate fasteners (not supplied). Structure to which the plate is attached must be capable of supporting applicable loads. Proper fasteners (Grade 5 or better recommended) must be used to secure plate to anchorage. If plate is welded in position, work must be done by a certified professional welder per current industry standards. Care must be taken in installation to ensure the D-ring swivels freely at all times. Welded installations and installations into masonry must be proof tested to 3,600 pounds.

NOTE: Always follow the Manufacturer's Instructions, Labels and Warnings FOR EACH COMPONENT PART of the FallTech Fall Arrest or Fall Restraint System when connecting any subsystem component to another.



Section 8 - Maintenance & Storage

Anchor Devices should be cleaned with a mild soap and water solution and wiped dry with a clean cloth.

DO NOT FORCE-DRY ANCHOR DEVICES.

Check Anchor Devices for excessive amounts of dirt, paint, roofing mastic, oil, etc. which could affect operation.

Store Anchor Devices in a cool, dry place, free of direct sunlight. **DO NOT STORE ANCHOR DEVICES IN AN AREA WHERE CHEMICAL VAPORS MAY EXIST.**

If Anchor Devices are stored for an extended period of time, be sure to inspect them thoroughly (see **Section 6**) before use as part of a Personal Fall Arrest or Fall Restraint System.

DO NOT ATTEMPT TO REPLACE OR REPAIR ANY PART OF THIS ANCHOR DEVICE.

Section 9 - Product Specifications

Wire Form Anchor

Construction: 1/4" Stainless steel rated to min. 5,000 lb. (22.2 kN) tensile strength

FallTech Grip Anchor

Construction: Galvanized steel rated to min. 5,000 lb. (22.2 kN) along axis

Hole size needed: 3/4" (19 mm) - 7/8" (22 mm)

Connector Plate

Construction: Stainless steel. D-rings-plated forged steel, each rated to min. 5,000 lb. (22.2 kN) min. break strength

(General Specifications)

Capacity: 310 pounds (140 kg) one person, plus clothing, tools, etc. Part of a system designed to limit fall arrest force to 1,800 pounds (8 kN) max.


Fully complies with ANSI A10.14 - 1991 and ANSI Z359.1 - 1992 standards, and all current OSHA requirements, including 1910.66 Appendix C and 1926.500.

Made in the U.S.A.

Section 10 - On-Product Labels & Warnings

All labels and warnings (**FIG. 4**) must be securely attached to Anchor Devices, and be legible:

FIG. 4 Manufacturer's Warning Labels for Connector Plate
(To Position Retractable Lifeline To System-Compatible Roof Anchor)

 <p>FALLTECH Fall Protection, Precision Engineered. Alexander Andrew, Inc., L.A., CA • 1-800-719-4619 Complies with OSHA and ANSI requirements. D-ring: Plated forged alloy steel rated at 5,000 pounds (22.2 kN) min. breaking</p>	<p>strength. Plate: Stainless steel rated at 5,000 pounds (22.2 kN) min. breaking strength. Part of a system designed to limit fall arrest forces to 1,800 pounds (8 kN) max. Capacity: 310 pounds (140 kg), one person plus clothing, tools, etc. MODEL # 7411 YEAR MFG'D _____</p>	<p>WARNING CONNECTOR PLATE All warnings and instructions supplied with this product must be read and followed. Any failure to do so could result in serious injury or death. This anchor is part of a comprehensive fall arrest/ positioning system. See the instruction manual for instal- lation instructions. Plate must be mounted to structure capa- ble of supporting a min. of 5,000 pounds (22.2 kN) as determined by a qualified per- son. All connecting hardware and connections must be compatible. Use only grade 5 or better hardware. Maximum arresting force = 1,800 pounds. Maximum work rating = 310 pounds. DO NOT REMOVE LABEL</p>
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NOTE: If labels and warnings are missing or illegible, contact FallTech immediately at 1-800-719-4619.

Section 12 - Important Safety Check List

Before your employees use any FallTech™ Personal Fall Protection System component, check YES or NO after each of the following statements:

- 1) All equipment has been inspected and maintained in accordance with the User's Manual. **YES** ___ **NO** ___
- 2) The equipment has been assembled and installed according to FallTech instructions. **YES** ___ **NO** ___
- 3) The anchorage point meets minimum load requirements per OSHA 1910.66 Appendix C. **YES** ___ **NO** ___
- 4) The equipment has been inspected and found to be in good working condition. **YES** ___ **NO** ___
- 5) Each user has been trained in the proper and safe use of the equipment. **YES** ___ **NO** ___
- 6) Each user understands the equipment. **YES** ___ **NO** ___
- 7) Each equipment user is in good health and is not under the influence of alcohol or drugs. **YES** ___ **NO** ___

URGENT WARNING TO EMPLOYERS:

A "NO" CHECKED AFTER ANY OF THE ABOVE STATEMENTS COULD CAUSE SERIOUS INJURY OR DEATH TO THE USER AND/OR TO OTHERS IN THE IMMEDIATE WORK AREA. YOU ARE LIABLE FOR ANY SUCH INJURY OR DEATH. DO NOT USE EQUIPMENT IF ANY STATEMENT HAS BEEN CHECKED "NO".

Section 11-Inspection Log

ANCHOR DEVICES

MODEL NO.: _____

PURCHASE DATE: _____

Inspected By: _____

Date: _____

Problems, Defects Noted (If Any): _____

Inspected By: _____

Date: _____

Problems, Defects Noted (If Any): _____

Inspected By: _____

Date: _____

Problems, Defects Noted (If Any): _____

Inspected By: _____

Date: _____

Problems, Defects Noted (If Any): _____



Alexander Andrew, Inc.
Los Angeles, CA • 1-800-719-4619