

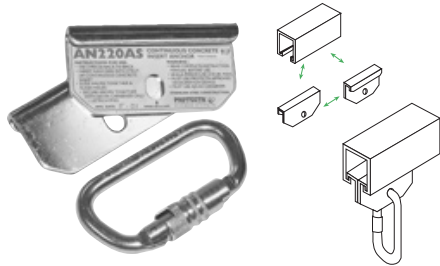


3833 SALA Way, Red Wing, MN 55066  
800-328-6146 www.protecta.com

## Instructions for Use AN220AS Continuous Concrete Insert Anchor

**NOTE: YOU MUST READ AND UNDERSTAND, OR HAVE THE FOLLOWING INSTRUCTIONS EXPLAINED TO YOU BEFORE USING THIS EQUIPMENT. FAILURE TO DO SO COULD RESULT IN INJURY OR DEATH.**

This manual is intended to meet the Manufacturer's Instructions as required by ANSI Z359.1-1998 and ANSI A10.1-1991, and should be used as part of an employee training program as required by OSHA.



**Warnings:** This product is to be used as part of a personal fall protection system. It is intended to be used as an anchorage point for either a shock-absorbing lanyard or self-retracting lifeline for fall arrest, or with a positioning lanyard for fall restraint. This unit should not be used for material handling or any other use other than that of a fall protection anchorage device.

**Applications:** The Insert Anchor mobile anchorage device is designed to meet the needs of those workers that are working in or 12 gauge or heavier strut, that require a compliant means to anchor a personal fall arrest system (PFAS). The Insert Anchor allows the user to quickly and easily affix the anchor unit to strut and then attach their PFAS. The unit is designed to allow horizontal movement along the strut provided there are no obstructions present along the track.

### LIMITATIONS

**Strut Size:** The Insert Anchor mobile anchorage device is designed to be used with standard 1-5/8" strut of 12 gauge or heavier construction. Under no circumstances should this anchor device be used on strut with dimensions outside this range.

**Beam Slope:** The Insert Anchor mobile anchorage device is designed to operate on strut with less than 5 degrees of slope. Should the unit be used on strut with a slope greater than 5 degrees, there is the risk of the unit sliding after impact loading and creating a dangerous situation for the user.

**Capacity:** The Insert Anchor mobile anchorage device is designed to serve as an anchorage point for one user with a combined weight of 310 lb. (user and tools). The unit should not be used by those above this level.

**Free Fall:** PFAS's selected for use with the Insert Anchor mobile anchorage device must be rigged to limit free fall to six feet or less when possible, as required by OSHA.

**Swing Fall:** Swing falls occur when the anchorage point is not directly above or below the point where the fall occurs. The force of striking an object as the result of a swing fall may cause serious injury. Minimize swing falls by working as close to the anchorage point as possible. Do not permit a swing fall if it could create an injury.

**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:

- Elevation of Insert Anchor
- Lanyard Length
- Lanyard elongation on deceleration
- Worker height
- Free fall distance
- Movement of harness attachment

See personal fall arrest system manufacturer's instructions for more information.

**Environmental Hazards:** Use of this equipment with environmental hazards may require additional precautions to prevent injury to the user or damage the equipment. Hazards may include, but are not limited to: heat, chemicals, corrosive environments, high voltage power lines, gases, moving machinery, moving vehicles and sharp edges. Contact Protecta if you have questions about using this equipment where environmental hazards may exist.

**Training:** This equipment is intended to be used by persons trained in its correct application and use.

**Applicable Standards:** Refer to national standards, including ANSI Z359.1-1998 and ANSI A10.14, and local, state and federal (OSHA) requirements for more information on personal fall arrest systems and associated components.

### SYSTEM REQUIREMENTS

**PFAS Components:** The Insert Anchor mobile anchorage device is designed for use with Protecta approved components and subsystems. Non-approved components may be incompatible, and could effect the safety and reliability of the complete system. PFAS's used with the Insert Anchor, must meet applicable OSHA, state, federal and ANSI requirements. A full body harness must be worn by the worker when connecting to the Insert Anchor. The PFAS's must be able of arresting the workers fall with a maximum arresting force of no more than 1800 lb. and where possible, limit the free fall distance to 6 feet.

**Compatibility of Connectors:** Connectors must support at least 5000 lb. Non-compatible connectors may unintentionally disengage (roll out). The carabiner supplied with the Insert Anchor must not be substituted with any other component.

**Anchorage Strength:** Anchors installed for fall arrest applications must be attached to a structure capable of sustaining static loads in the directions permitted by the PFAS of at least: 3600 lb. by a qualified person, or 5000 lb. without certification. See ANSI Z359.1-1998 for

certification definition and OSHA 29 CFR for "qualified person" definition.

### INSTALLATION & OPERATION

Before each use of this equipment, carefully inspect it according to inspection procedure listed in the next section.

#### Steps to install (SEE REVERSE):

- 1) Select a point directly above the work area. Insert one half of the AN220AS into strut.
- 2) Insert the other half of the AN220AS back-to-back and slightly in front of the first half.
- 3) Slide halves together and align holes. Insert carabiner supplied into holes of each half.
- 4) Ensure anchor flanges engage with strut bottom tracks.
- 5) Prior to connecting PFAS test for proper engagement of anchor to strut by shaking vigorously.
- 6) Attach user's lanyard and affix other end to harness.

**Operation :** PFAS inspection: Inspect and don your harness according to the instructions provided with the harness. Attach the connecting subsystem (lanyard) to the dorsal D-ring of the harness.

**Structure Review:** Ensure that the strut you will be connecting to is properly supported before securing the connecting subsystem to the Insert Anchor mobile anchorage device. Approach the strut using appropriate access equipment. Prior to use a qualified person must determine that the strut to be anchored to is capable of supporting 450 lbs. static load per linear inch. Contact Protecta for information about connecting more than one user to a single piece of strut.

**Strut:** Secure the Insert Anchor rail anchor only to strut that is capable of supporting the required loads.

**Free Fall:** PFAS's must be rigged to limit free fall to a maximum of six feet where possible, in accordance with OSHA requirements.

**Sharp edges or obstruction:** Avoid working where the connection subsystem (lanyard) or other system components may come in contact with or abrade against sharp edges.

**After a Fall:** Components, which have been subjected to fall arrest forces, should be removed from service and destroyed.

**Rescue:** The employer must have a rescue plan and the ability to implement it.

**Training:** It is the responsibility of the user and purchaser of this equipment to be familiar with the instructions, operating characteristics, application limits, and the consequences of improper use of this equipment. Users and purchasers of this equipment must be trained in the correct care and use of this equipment.

### INSPECTION FREQUENCY

Before each use inspect the Insert Anchor mobile anchorage device as listed :

**Formal Inspection:** A formal inspection of the Insert Anchor rail anchor must be performed at least annually by a competent person other than the user. The frequency for formal inspections should be based on

conditions of use or exposure. See inspection steps listed below. Record the inspection results in the inspection log provided with these instructions.

**Step 1)** Inspect the Insert Anchor mobile anchorage device for any damage. Look carefully for any cracks, dents, or deformities in both the anchor pieces and the carabiner. Check for bending or wear.

**Step 2)** Inspect the Insert Anchor for excessive corrosion.

**Step 3)** Inspect the carabiner for deformities or damage.

**Step 4)** Inspect label. Product information labels must be present and fully legible. Product information labels must be replaced if missing or illegible.

**Step 5)** Record the inspection results for all formal inspections in the Inspection and Maintenance log.

### MAINTENANCE, SERVICING, & STORAGE

**Cleaning:** Periodically clean the Insert Anchor mobile anchorage device using water and mild soap solution. Do not use acids or other caustic chemicals that could damage the system components.

**User Equipment:** Maintain, service and store harnesses, lanyards and other PFAS components in accordance with separate instructions provided with each component.

### SPECIFICATIONS

#### Materials:

Anchor plates: 304 stainless steel  
Carabiner: Alloy steel

### WARRANTY

Seller warrants that its goods are free from defects in material and workmanship for a period of one year from the date of purchase. Seller further warrants the fitness of their product in meeting the applicable OSHA standard related to the specific product. The purchaser is responsible for advising the seller of need for compliance with local, municipal, or state codes other than OSHA. Accordingly, seller's liability is limited to replacing without charge or refunding the purchase price, or making fair allowance for any noncompliance with any specifications or any defects in materials or workmanship in its products existing at time of delivery. SELLER MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH EXCEED THE ABOVE OBLIGATION ARE HEREBY DISCLAIMED BY SELLER AND EXCLUDED. Seller will not be liable for any consequential damages, loss, or expense arising in connection with the use or inability whatever, regardless of whether damage, loss, or expense results from any act of failure to act by the Seller, whether negligent, willful, or from any other reason. Seller requires written notice and the return of the product to establish any claim. The seller reserves the right to make design or other changes without notifying the purchaser.



SALA Way, Red Wing, MN 55066  
PHONE : 651-388-8282 FAX : 651-388-5065  
TOLL-FREE : 800-328-6146 www.protecta.com

