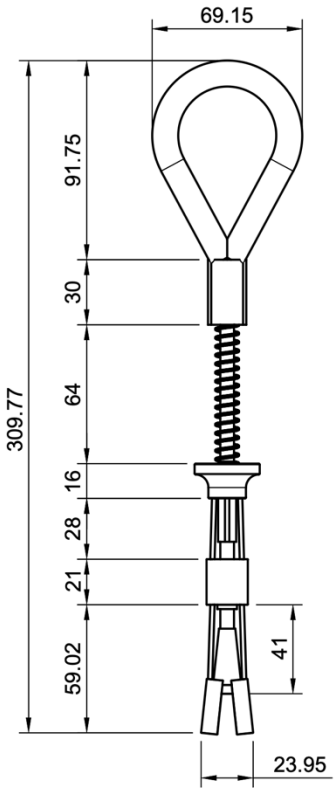
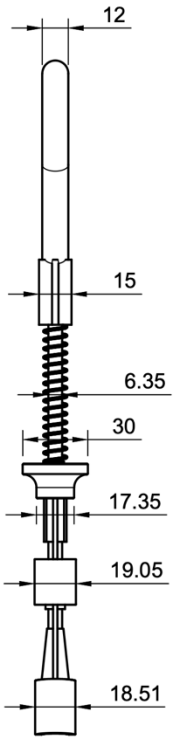
ME-RCA5K	Reusable Concrete Anchor ¾” 5K
Material	Stainless Steel AISI 304
Dimensions	309.77mm X 69.15mm x 12mm
Weight	0.26 kg

DESCRIPTION

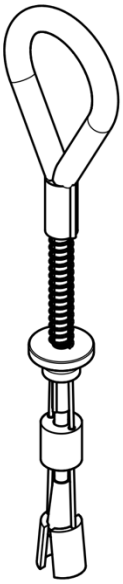
This Reusable Concrete Anchor is a temporary anchorage device designed specifically for installation in solid concrete structures. The anchor features a spring-loaded mechanical expansion head that locks securely inside a properly drilled concrete hole. A flexible galvanized steel cable with a protective coated loop provides a durable and user-friendly attachment point for fall protection equipment.



FRONT VIEW



SIDE VIEW



ISOMETRIC VIEW

PRODUCT-SPECIFIC APPLICATIONS

May be used to support a MAXIMUM of one (1) direct Personal Fall Arrest System (PFAS) for use in fall arrest applications only, when used in combination with an energy-absorbing device rated to reduce fall arrest forces to no greater than 1,800 lb (8 kN). The supporting structure must withstand loads, applied in the directions permitted by the system, of at least 5,000 lb (22.2 kN). Maximum free fall is 6 ft (1.8 m), or up to 12 ft (3.7 m) if used in combination with equipment explicitly certified for such use. The Metal Edge Reusable Concrete Anchor may be loaded in any direction and is permitted for use as a component in a horizontal lifeline system. D-ring: Dorsal.

May be used in restraint applications as an anchorage for attaching compatible equipment used during restraint tasks. Restraint systems prevent a worker from reaching the leading edge of a fall hazard. Always account for the fully deployed length of the lanyard/SRL. No free fall is permitted. D-rings: Dorsal, Chest, Side, Shoulder (pairs only).

May be used in work positioning applications as an anchorage for attaching compatible equipment used during positioning tasks. Work positioning systems allow a worker to be supported while suspended and to work freely with both hands. No free fall is permitted. D-rings: Side (pairs only).

May be used in rescue/confined space applications as an anchorage for attaching compatible equipment used during rescue/confined space tasks. Rescue systems are designed to safely recover a worker from a confined location or after a fall. There are various configurations of rescue systems, depending on the type of rescue. No free fall is permitted. Applicable D-rings: Dorsal, Chest, Side, Shoulder (pairs only).

KEY FEATURES

- Designed for **solid concrete installation**
- Spring-loaded mechanical expansion head
- Flexible galvanized steel cable
- High-visibility protective loop coating
- Quick installation and removal
- Reusable temporary anchor
- Compact and lightweight design
- Minimum Breaking Strength: 5000 lb (22.2 kN)
- Permitted Service Temperature Range: -300 to 1300 °F (-340 to 540 °C)

TECHNICAL SPECIFICATIONS

- Anchor Type: Fixed anchor plate
- Material: Aluminum Alloy
- Installation Substrate: Structural Steel
- Installation Method: Bolted installation
- Number of Fixing Holes: 2
- Loading Direction: Axial through D-loop
- Installation Type: Permanent

COMPATIBILITY

When making connections, eliminate all possibility of roll-out. Roll-out occurs when interference between a connector and its attachment point causes the connector gate to open unintentionally and release.

All connections must be selected and deemed compatible with the harness by a Competent Person.

All connector gates must be self-closing, self-locking, and capable of withstanding a minimum load of 3,600 lb (16 kN).

LIMITATIONS

Fall Clearance: There must be sufficient clearance below the work surface to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 2 ft (0.6 m) safety factor, deceleration distance, user height, lanyard/SRL length, harness stretch, free fall, and all other applicable factors.

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 the anchor point as possible. Swing falls significantly increase the likelihood of serious injury or death in the event of a fall.

MAINTENANCE

Cleaning after use is important for maintaining the Anchor's safety and longevity. Remove all dirt, corrosives, and contaminants from the harness before and after each use. If the Anchor cannot be cleaned with plain water, use mild soap and water, then rinse and wipe it dry. NEVER clean the Anchor with corrosive substances.

When not in use or during transport, store the equipment in a location where it will not be exposed to heat, light, excessive moisture, chemicals, or other degrading elements.

SAFETY & COMPLIANCE

Suitable for fall protection systems when properly rated

Can be tested to comply with:

- CSA Z259.15
- ANSI Z359.18-2017
- OSHA 1910.140
- OSHA 1926.502

INSTALLATION AND USE – MINIMUM CONCRETE SUBSTRATE REQUIREMENT

- If between 6 in-12 in (152 mm - 305 mm) from any edge/corner: 12 in (305 mm) thick x 3,000 psi

- If greater than 12 in (305 mm) from any edge/ corner: 6 in (152 mm) thick x 3,000 psi Installation:

Step 1

- Using a concrete drill bit, drill a 3/4 in. (20 mm) hole into the base material to a depth of at least 3 1/2 in. (89 mm). The hole must be straight and perpendicular to the substrate.

Step 2

- Blow the hole clean of dust and debris using compressed air.

Step 3

- • To install the Anchor, place your thumb inside the anchor loop and your first two fingers around the trigger. Squeeze your thumb and fingers together until the trigger and spring are fully compressed.

Step 4

- • Insert the Metal Edge Reusable Concrete Anchor at least 3 in (76 mm) into the installation hole and release the trigger. The stop sleeve must always be at least partially inserted into the installation hole.

Step 5

- Seat the anchor by pulling sharply on the connection loop.

Step 6

- Attach a compatible PFAS to the anchor connection loop. A maximum of one connection is permitted.

Step 7

- • The Metal Edge Reusable Concrete Anchor may be removed and reinstalled at multiple locations, provided all installation requirements are met. Always inspect the hole prior to installation.

LOADING DIRECTION

The anchor may be loaded in any direction

WARNING!

Failure to understand and comply with safety regulations may result in serious injury or death. The regulations included herein are not all-inclusive, are provided for reference only, and are not intended to replace a Competent Person's judgment or knowledge of applicable federal or state standards.

CAUTION!

Understand the definitions of individuals who work near fall hazards or may be exposed to them.

WARNING!

Use of this equipment in unintended applications may result in serious injury or death. Maximum of one attachment per connection point. Do not alter the equipment.

Workplace conditions—including, but not limited to, corrosive chemicals, electrical shock hazards, sharp objects or edges, machinery, flame or high heat, abrasive or uneven surfaces, UV exposure, and severe or prolonged weather conditions—must be assessed by a Competent Person (CP) before fall protection equipment is selected. The presence of any or all of these conditions may negatively affect product performance or service life.

The analysis of the workplace must anticipate where workers will perform their duties, the routes they will take to reach their work areas, and the potential and existing fall hazards to which they may be exposed. Fall protection equipment must be selected by a competent person (CP). Selections must account for all potentially hazardous workplace conditions. All fall protection equipment should be purchased new and in unused condition.

Fall protection systems must be selected and installed under the supervision of a Competent Person (CP) and used in compliance. The system must be designed in accordance with all applicable federal, state, and safety regulations. Forces applied to anchors must be calculated by a CP.

Harnesses and connectors selected must comply with the manufacturer's instructions and be of compatible size and configuration. Snap hooks, carabiners, and other connectors must be selected and used in a compatible manner. All risk of disengagement must be eliminated. All snap hooks and carabiners must be self-locking and self-closing and must never be connected to each other.

A preplanned rescue procedure for a fall is required. The rescue plan must be project-specific and must allow employees to rescue themselves or provide an alternative method for their prompt rescue to minimize post-fall suspension time. Store rescue equipment in an easily accessible and clearly marked area.

Authorized Persons (APs) must receive training from a Competent Person (CP) on the correct erection, disassembly, inspection, maintenance, storage, and use of equipment. Training must include the ability to recognize fall hazards, minimize their likelihood, and correctly use personal fall arrest systems.

NEVER use fall protection equipment of any kind to hang, lift, support, or hoist tools or equipment, unless explicitly certified for such use.

Equipment subjected to fall-arrest forces must be immediately removed from service.

Age, fitness, and existing health conditions can significantly affect a worker if a fall occurs. Consult a doctor if there is any reason to doubt a user's ability to safely withstand fall arrest forces or to perform equipment setup. Pregnant individuals and minors MUST NOT use this equipment.

Physical harm may still occur even when fall protection equipment is functioning correctly. Prolonged suspension after a fall can result in serious injury or death. Use trauma-relief straps to help reduce the effects of suspension trauma.

INSPECTION LOG

Model #:		Date of first issue:	
Date:	Condition:	Inspected by:	Next Inspection Date: