



Trusted Quality Fall Protection

User Instruction Manual
Protecta® Concrete Bolt Anchorage Connector
Model Number: 2190055

USER INSTRUCTION MANUAL **PROTECTA® CONCRETE BOLT ANCHORAGE CONNECTOR**

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

WARNING: This product is part of a personal fall arrest, restraint, work positioning, personnel riding, or rescue system. The user must read and follow the manufacturer's instructions for each component or part of the complete system. These instructions must be provided to the user of this equipment. The user must read and understand these instructions or have them explained to them before using this equipment. Manufacturer's instructions must be followed for proper use and maintenance of this product. Alterations or misuse of this product or failure to follow instructions may result in serious injury or death.

IMPORTANT: If you have questions on the use, care, or suitability of this equipment for your application, contact Capital Safety.

IMPORTANT: Record the product identification information from the ID label in the Inspection and Maintenance Log at the back of this manual.

DESCRIPTION:

The Protecta® Concrete Bolt Anchorage Connector (Figure 1) is comprised of an alloy steel anchor bolt, stainless steel D-ring bracket and forged steel D-ring. It can be used as anchor point for horizontal, vertical, or overhead concrete applications. A Swivel Ring serves as the connection for Fall Arrest, Work Positioning, Restraint, or Personnel Riding systems.

Figure 1 - Concrete Bolt Anchorage Connector

A	Bolt
B	Flat Washer
C	Short Spacer
D	D-Ring Bracket
E	Thick Flat Washer
F	Long Spacer
G	Black Plastic Spacer
H	Expansion Sleeve
I	Cone Nut

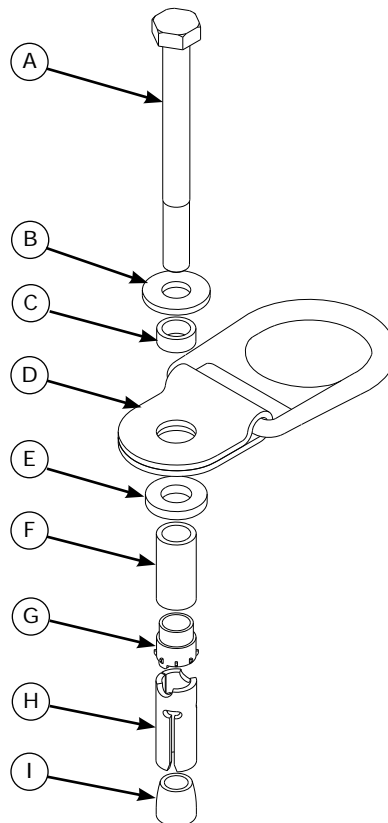
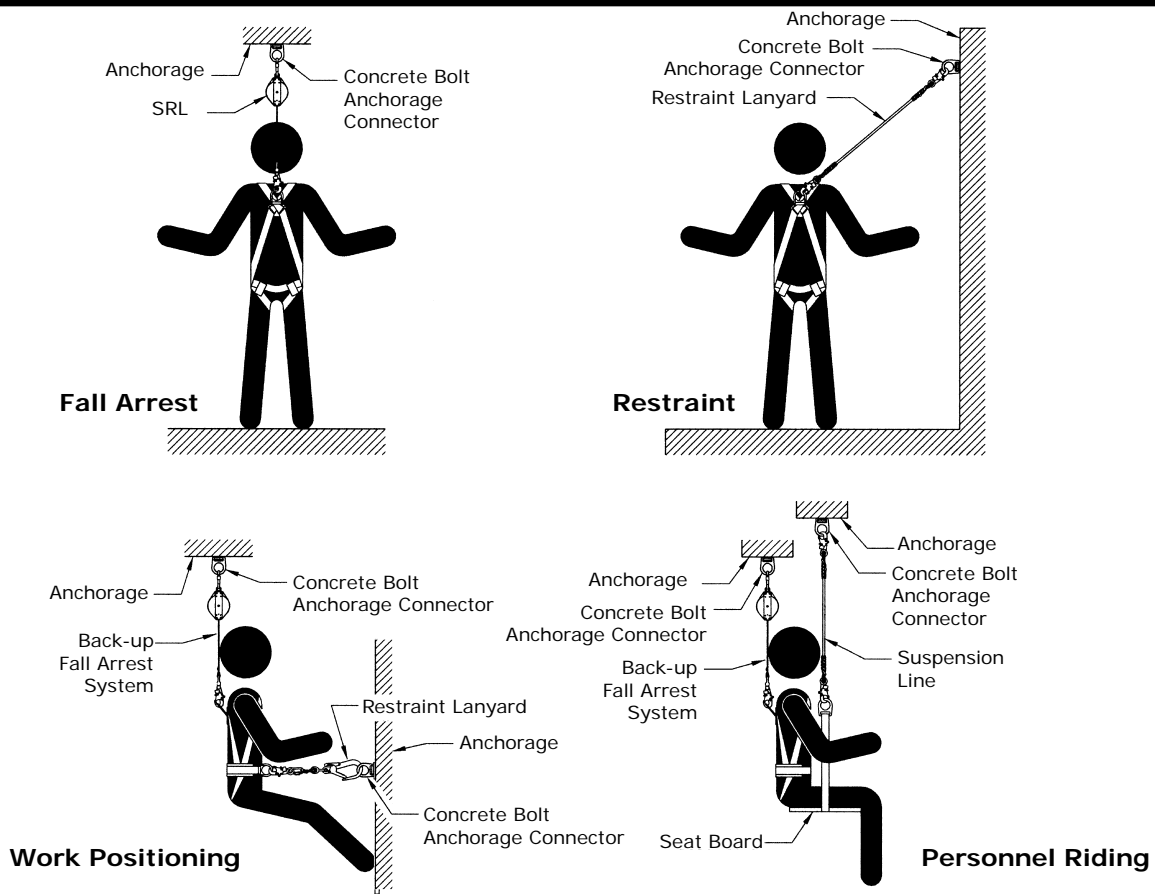


Figure 2 - Applications



1.0 APPLICATIONS

1.1 PURPOSE: The Protecta Concrete Bolt Anchorage Connector is designed for use as an attachment of a personal fall arrest, restraint, work positioning, personnel riding, or rescue system to an anchorage. See Figure 2 for application illustrations.

- A. PERSONAL FALL ARREST:** The Concrete Bolt Anchorage Connector is used as a component of a personal fall arrest system to protect the user in the event of a fall. Personal fall arrest systems typically include a full body harness and a connecting subsystem (energy absorbing lanyard). Maximum permissible free fall is 6 feet.
- B. RESTRAINT:** The Concrete Bolt Anchorage Connector is used as a component of a restraint system to prevent the user from reaching a fall hazard. Restraint systems typically include a full body harness and a lanyard or restraint line. No vertical free fall is permitted.
- C. WORK POSITIONING:** The Concrete Bolt Anchorage Connector is used as a component of a work positioning system to support the user at a work position. Work positioning systems typically include a full body harness, positioning lanyard, and a back-up personal fall arrest system. Maximum permissible free fall is 2 feet (0.6 m).
- D. PERSONNEL RIDING:** The Concrete Bolt Anchorage Connector is used as a component of a personnel riding system to suspend or transport the user vertically. Personnel riding systems typically include a full body harness, boatswains's chair or seat board, and a back-up personal fall arrest system. No vertical free fall is permitted.
- E. RESCUE:** The Concrete Bolt Anchorage Connector is used as a component of a rescue system. Rescue systems are configured depending on the type of rescue. No vertical free fall is permitted.

WARNING: Do not use the Concrete Bolt Anchorage Connector for applications not addressed in this manual.

1.2 LIMITATIONS: The following application limitations must be recognized and considered before using this product:

- A CAPACITY:** The Concrete Bolt Anchorage Connector is designed for use by persons with a combined weight (clothing, tools, etc.) of no more than 310 lbs. No more than one personal protective system may be connected at one time.

NOTE: For emergency rescues it may be acceptable to connect more than one system if the anchorage will support the anticipated loads.

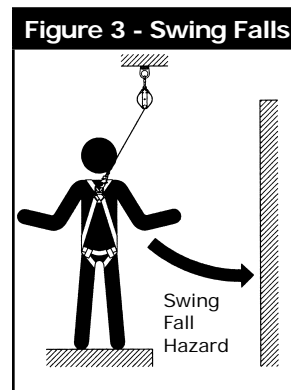
- B. FREE FALL:** Personal fall arrest systems used with this equipment must be rigged to limit the free fall to 6 feet (1.8 m) per ANSI Z359.1. See the personal fall arrest system manufacturer's instructions for more information. Restraint systems must be rigged so that no vertical free fall is possible. Work positioning systems must be rigged so that free fall is limited to 2 feet (0.6 m) or less. Personnel riding systems must be rigged so that no vertical free fall is possible. Rescue systems must be rigged so that no vertical free fall is possible.

- C. FALL CLEARANCE:** There must be sufficient clearance below the user to arrest a fall before the user strikes the ground or other obstruction. The clearance required is dependent on the following factors:

- Deceleration Distance
- Movement of Harness Attachment Element
- Free Fall Distance
- Elevation of D-Ring Anchorage Connector
- Worker Height
- Connecting Subsystem Length

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

- D. SWING FALLS:** Swing falls occur when the anchorage point is not directly above the point where a fall occurs. See Figure 3. The force of striking an object in a swing fall may cause serious injury or death. Minimize swing falls by working as close to the anchorage point as possible. Do not permit a swing fall if injury could occur. Swing falls will significantly increase the clearance required when a self retracting lifeline or other variable length connecting subsystem is used.



- E. ENVIRONMENTAL HAZARDS:** Use of this equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include, but are not limited to: heat, chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges. Contact Protecta if you have questions about using this equipment where environmental hazards exist.
- F. TRAINING:** This equipment must be installed and used by persons trained in its correct application and use. See section 4.0.

1.3 APPLICABLE STANDARDS: Refer to national standards including; ANSI Z359 (.0, .1, .2, .3, and .4) fall protection standards, ANSI A10.32, and local, state, and federal (OSHA) requirements governing occupational safety for additional information regarding personal fall arrest systems and associated components.

2.0 SYSTEM REQUIREMENTS

Always consider the following limitations/requirements when installing or using this equipment:

- 2.1 COMPATIBILITY OF COMPONENTS:** Protecta equipment is designed for use with Protecta approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and may effect the safety and reliability of the complete system.

2.2 COMPATIBILITY OF CONNECTORS: Connectors are considered to be 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. Contact Capital Safety if you have any questions about compatibility.

Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbs. (22 kN). Connectors must be compatible with the anchorage or other system components. See Section 3.8 for additional information on anchorage connections. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage (see Figure 4). Connectors must be compatible in size, shape, and strength. Self-locking snap hooks and carabiners are required by ANSI Z359.1 and OSHA.

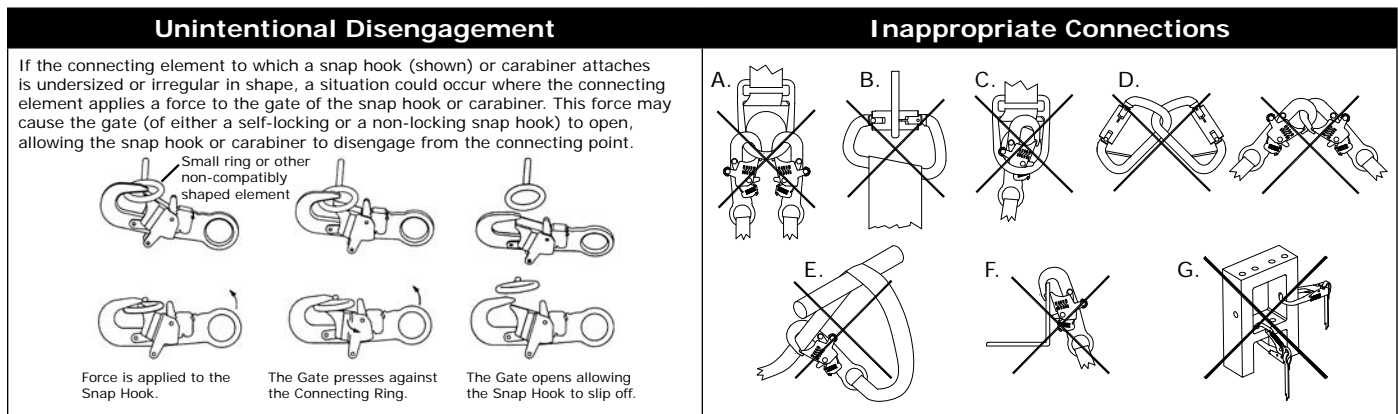
2.3 MAKING CONNECTIONS: Use only self-locking snap hooks and carabiners with this equipment. Only use connectors that are suitable to each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked.

Protecta connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. See Figure 5 for inappropriate connections. Protecta snap hooks and carabiners should not be connected:

- A. To a D-ring to which another connector is attached.
- B. In a manner that would result in a load on the gate

NOTE: Other than 3,600 lb. (16 kN) gated hooks, large throat opening snap hooks should 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. Large throat snap hooks are designed for use on fixed structural elements such as rebar or cross members that are not shaped in a way that can capture the gate of the hook.

- C. 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.
- D. To each other.
- E. Directly to webbing or rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connector specifically allow such a connection).
- F. To any object which is shaped or dimensioned such that the snap hook or carabiner will not close and lock, or that roll-out could occur.
- G. In a manner that does not allow the connector to align properly while under load.



2.4 PERSONAL FALL ARREST SYSTEM: Personal fall arrest systems used with this equipment must meet applicable state, federal, OSHA, and ANSI requirements. A full body harness must be worn when this equipment is used as a component of a personal fall arrest system. As required by OSHA, the personal fall arrest system must be capable of arresting the user's fall with a maximum arresting force of 1,800 lbs. (8 kN), and limit the free fall to 6 feet (1.8 m) or less. If the maximum free fall distance must be exceeded, the employer must document, based on test data, that the maximum arresting force will not be exceeded, and the personal fall arrest system will function properly.

When a free fall greater than 6 feet (1.8 m), and up to a maximum of 12 feet (3.7 m) is possible, Protecta recommends using a personal fall arrest system incorporating a Protecta Force2 Energy Absorbing Lanyard. Protecta has performed testing using the Force2 Energy Absorbing Lanyard in free falls up to 12 feet (3.7 m) to ensure the maximum arresting force does not exceed 1,800 lbs. (8 kN) and the system functions properly. The results of these tests are listed in the user instruction manual provided with Force2 Energy Absorbing Lanyards.

2.5 RESTRAINT SYSTEM: Restraint systems used with this equipment must meet state, federal, OSHA, and ANSI requirements.

2.6 ANCHORAGE STRENGTH: The anchorage strength required is dependent on the application type. The following are the requirements of ANSI Z359.1 for these application types:

A. Fall Arrest: Anchorages selected for fall arrest systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:

1. 5,000 lbs. (22.2 kN) for non-certified anchorages
2. Two times the maximum arresting force for certified anchorages.

When more than one fall arrest system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.

B. Restraint: Anchorages selected for restraint and travel restraint systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:

1. 1,000 lbs. (4.5 kN) for non-certified anchorages
2. Two times the foreseeable force for certified anchorages.

When more than one restraint and travel restraint system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.

C. Work Positioning: Anchorages selected for work positioning systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:

1. 3,000 lbs. (13.3 kN) for non-certified anchorages
2. Two times the foreseeable force for certified anchorages.

When more than one work positioning system is attached to an anchorage, the strengths previously set forth in (1) and (2) shall be multiplied by the number of systems attached to the anchorage.

D. Rescue: Anchorages selected for rescue systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:

1. 3,000 lbs. (13.3 kN) for non-certified anchorages
2. Five times the foreseeable force for certified anchorages.

When more than one work positioning system is attached to an anchorage, the strengths previously set forth in (1) and (2) shall be multiplied by the number of systems attached to the anchorage.

E. PERSONNEL RIDING: The structure to which the Concrete Wedge Anchor is attached must sustain static loads applied in the directions permitted by the personnel riding system of at least 2,500 lbs (11 kN). When more than one personnel riding system is attached to an anchorage, the strengths stated above must be multiplied by the number of personnel riding systems attached to the anchorage.

WARNING: Use of the Concrete Wedge Anchor for an application that does not meet the anchorage strength requirements stated in this section may result in serious injury or death.

3.0 INSTALLATION AND USE

WARNING: Do not alter or intentionally misuse this equipment. Consult Capital Safety when using this equipment in combination with components or subsystems other than those described in this manual. Some subsystem and component combinations may interfere with the operation of this equipment. Use caution when using this equipment around moving machinery, electrical hazards, chemical hazards, sharp edges, and abrasive surfaces.

WARNING: Consult your doctor if there is any reason to doubt your fitness to safely absorb the shock from a fall arrest or suspension. Age and fitness seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use Protecta equipment unless in an emergency situation.

3.1 BEFORE EACH USE: Before each use of this equipment, carefully inspect it to assure that it is in serviceable condition. Refer to section 5.0 for inspection details. Do not use if inspection reveals an unsafe condition.

3.2 PLANNING: Plan your system before starting your work. Take into consideration factors that affect your safety before, during, and after a fall. The following list gives some important points to consider:

- A. ANCHORAGE:** Select an anchorage capable of supporting the loads specified in Section 2.6.
- B. SHARP EDGES:** Avoid working where system components may be in contact with or abrade against sharp edges. If working around sharp edges is unavoidable, provide protection by using a heavy pad over the exposed sharp edge.
- C. AFTER A FALL:** Components subjected to the forces of arresting a fall must be removed from service and destroyed.
- D. RESCUE:** The employer must have a rescue plan in place prior to the use of this equipment. The rescue plan must provide for a quick safe rescue.

3.3 INSTALLATION REQUIREMENTS: The following requirements must be observed to ensure safe effective installation of the Concrete Bolt Anchorage Connector:

- A. CONCRETE:** The concrete in which the anchor is secured must have a compressive strength of 3,000 psi (20.7 MPa). The Concrete Bolt Anchorage Connector is not intended for use in lightweight concrete, hollow block, grout, stone, wood, steel, or any other substrate. The concrete base material must be at least 6 1/4 inches (15.9 cm) thick.
- B. MOUNTING HOLE LOCATION:** The mounting hole for the Concrete Bolt Anchorage Connector must be located at least 15 inches (38 cm) from any free edge and far enough away from any obstruction or feature that will keep the D-ring from rotating freely when a personal fall arrest system is attached to it. When mounting more than one Concrete Bolt Anchorage Connector on an anchorage, they must be separated by at least 10 inches (25 cm). Drill bits used to create the mounting holes must conform to ANSI B212.15. See Figure 7.

Figure 6 - Loading the Anchorage Connector

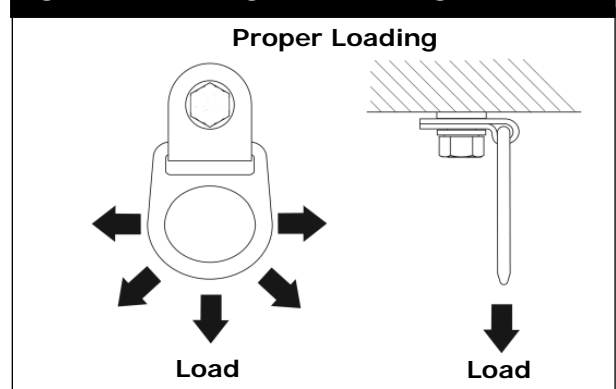
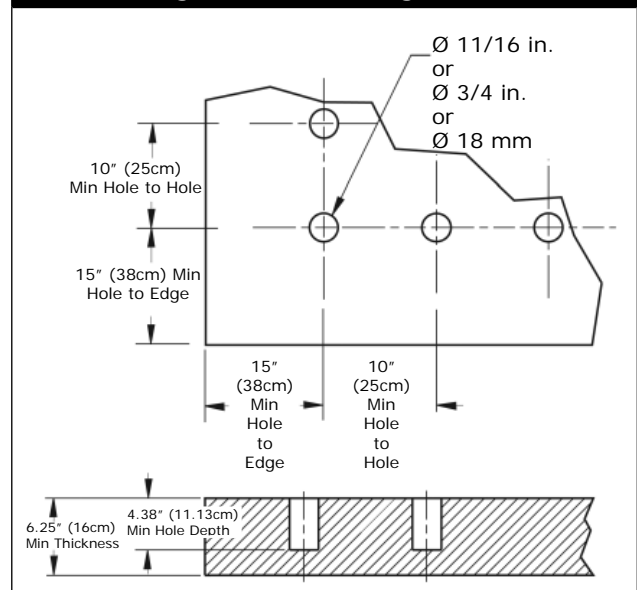


Figure 7 - Mounting Holes



3.4 INSTALLATION:

- Step 1.** Use a rotary hammer and 11/16-in., 3/4-in., or 18-mm bit to drill a hole to a depth of 4 3/8 in (11 cm)
- Step 2.** Clean the hole using a blow-out bulb or compressed air. The hole must be free of debris for the Concrete Bolt Anchorage Connector to develop full strength.

- Step 3.** Use a hammer to drive the Concrete Bolt Anchorage Connector into the hole. The Concrete Bolt Anchorage Connector must be seated firmly against the D-ring flange. Do not expand the anchor bolt by hand before installation.
- Step 4.** Tighten the bolt to 59 ft lbs (80 Nm) using a 15/16-in. wrench. A torque wrench is required for installation.

WARNING: Before drilling holes, inspect the hole location to prevent drilling into power transmission cables or other live utilities.

- 3.5 REMOVAL:** The Concrete Bolt Anchorage Connector can be removed by loosening the bolt with a 3/4-in. wrench. Parts of the Concrete Bolt Anchorage Connector bolt will remain in the hole permanently. After removal, the hole should be filled with grout or sealant to prevent reuse of the hole.
- 3.6 REUSE:** The D-ring bracket (see Figure 1) may be reused if it has not been subjected to a fall force and meets the inspection criteria in Section 5.2. The bolt cannot be reused and must be destroyed after removal. Refer to the previous section for removal instructions. Assemble the Concrete Bolt Anchorage Connector using Protecta supplied parts as shown in Figure 1. The components should be assembled on the bolt in the following order: flat washer, D-ring bracket, short spacer, flat (thick) washer, long spacer, black plastic spacer, expansion sleeve, cone nut. The D-ring bracket must fit over the short spacer and rotate freely. Two tabs on the plastic spacer must engage the matching slots on the expansion sleeve. Do not expand the anchor bolt by hand prior to installation.
- 3.7 DISPOSAL:** Dispose of the Concrete Bolt Anchorage Connector if it has been subjected to fall force or inspection (see Section 5) reveals an unsafe or defective condition.
- Before disposing of the Concrete Bolt Anchorage Connector, remove all labels to eliminate the possibility of inadvertent reuse.
- 3.8 CONNECTIONS:** When using a hook to connect to the Concrete Bolt Anchorage Connector, ensure roll-out cannot occur. Roll-out occurs when interference between the hook and mating connector causes the hook gate to unintentionally open and release. Self-locking snap hooks and carabiners should be used to reduce the possibility of roll-out. Do not use hooks or connectors that will not completely close over the attachment object. See subsystem manufacturer's instructions for information on connecting to the Concrete Bolt Anchorage Connector.

4.0 TRAINING

- 4.1** It is the responsibility of the user to assure they are familiar with these instructions, and are trained in the correct care and use of this equipment. Users must also be aware of the operating characteristics, application limits, and the consequences of improper use of this equipment.

IMPORTANT: Training must be conducted without exposing the trainee to a fall hazard. Training should be repeated on a periodic basis.

5.0 INSPECTION

To ensure safe, efficient operation, the Concrete Bolt Anchorage Connector should be inspected at the intervals defined in Section 5.1. See Section 5.2 for inspection procedures.

5.1 FREQUENCY:

- **Before Each Use:** Visually inspect the Concrete Bolt Anchorage Anchor per steps listed in Sections 5.2 and 5.3.
- **Annually:** A formal inspection of the Concrete Bolt Anchorage Anchor and its connection to the structure must be performed at least annually by a competent person other than the user. The frequency of formal inspections should be based on conditions of use or exposure. See sections 5.2 and 5.3. Record the inspection results in the inspection and maintenance log in section 9.0.

IMPORTANT: Extreme working conditions (harsh environment, prolonged use, etc.) may require increasing the frequency of inspections.

- 5.2 INSPECTION STEPS:** Per the intervals defined in Section 5.1, inspect the Concrete Bolt Anchorage Connector as follows. (Refer to Figure 1 for component identification):

- Step 1.** Inspect the torque setting. If loose, the Concrete Bolt Anchorage Connector may not be properly installed or may have been tampered with. Any Concrete Bolt Anchorage Connector that shows signs of tampering must be removed from service. It may not be used for fall arrest, fall restraint, work positioning or rescue applications.

- Step 2.** Inspect the Concrete Bolt Anchorage Connector for proper embedment. The D-ring flange must be seated firmly against the concrete.
- Step 3.** Inspect the D-ring for damage or corrosion. Inspect the D-ring for cracks or wear that may affect strength and operation.
- Step 4.** Inspect the D-ring bracket for damage or deformation. The bracket should swivel freely on the bolt. Inspect the bracket for cracks or wear that may affect strength and operation.
- Step 5.** Inspect the system components according to the manufacturer's instructions.

NOTE: Record the inspection date and results in the *Inspection and Maintenance Log*.

- 5.3 DEFECTS:** If inspection reveals a defective condition, remove the Concrete Bolt Anchorage Connector from service and dispose in the manner described in Section 3.7.
- 5.4 PRODUCT LIFE:** The functional life of the Concrete Bolt Anchorage Anchor is determined by work conditions and maintenance. As long as the product passes inspection criteria, it may remain in service.

6.0 MAINTENANCE

- 6.1 CLEANING:** Clean the Concrete Bolt Anchorage Connector with a mild soap solution. Excessive build-up of dirt may prevent the D-ring from swivelling.
- 6.2 STORAGE:** Store the Concrete Bolt Anchorage Connector in a clean dry environment. Avoid areas where chemical vapors may exist. Do not pile objects on top of the anchor. Thoroughly inspect the Concrete Bolt Anchorage Connector after extended storage.

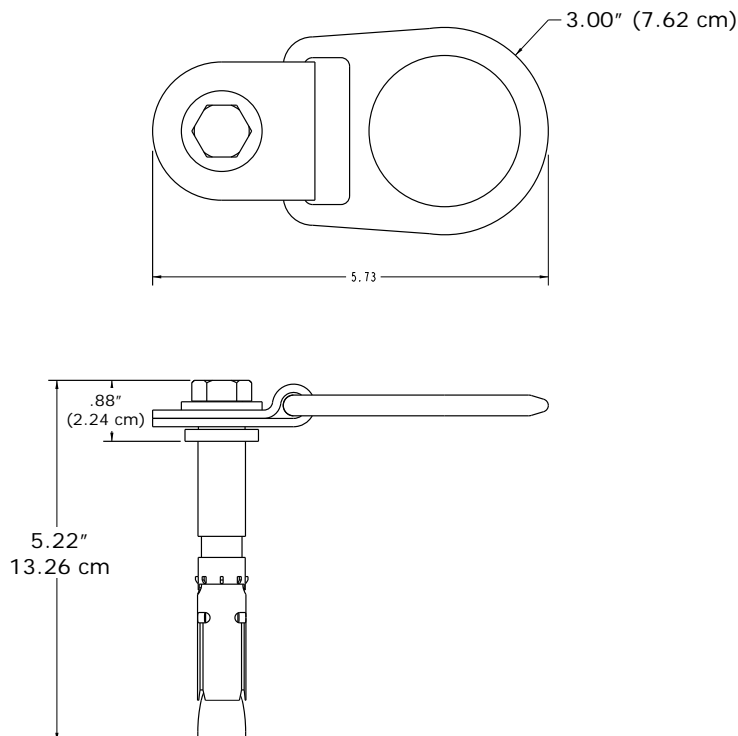
7.0 SPECIFICATIONS

7.1 MATERIALS:

D-Ring Bracket:	Stainless Steel
D-Ring Material:	Forged Alloy Steel
Anchor Bolt Material:	Alloy Steel


7.2 DIMENSIONS:

Figure 8 - Physical Dimensions



8.0 LABELING

The following labels should be securely attached to the Concrete Wedge Anchor:

	www.capitalsafety.com USA 651-288-4282 CANADA 905-764-0333 ASIA 853-9992-0391	EUR, M.E. AFR. 334-97-10-00-10 NO. EUROPE 44-709-07-1524 AUSTRALIA 61-2-9748-0335	INSPECTION LOG DATE INITIAL
	This product meets OSHA, ANSI Z359.1 & ANSI A10.32-2004 requirements. MATERIALS: Zinc plated steel anchor bolt, stainless steel D-ring bracket, zinc plated steel D-ring CAPACITY: 1 person, 310 lbs ANSL 420 lbs OSHA max. MFRD (YR/MO) / LOT NO: MODEL NO:		
			9505323 Rev A

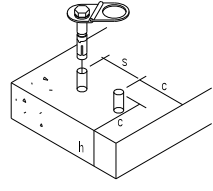
Front of Label

<p>WARNING</p> <p>Manufacturer's Instructions supplied with this product at time of shipment must be followed for proper use, maintenance and inspection. Alteration or misuse of this product, or failure to follow instructions may result in serious injury or death. Inspect anchor before each use. Do not use if inspection reveals an unsafe condition. Fall arrest systems must limit maximum arresting forces to 1800 lbs. Do not allow fall arrest system to abrade against sharp edges. Use caution near hazardous thermal, electrical or chemical sources. Make only compatible connections. Do not exceed capacity of this or other system components. Refer to User Manual. Items subject to fall arrest impact forces must be immediately removed from service and destroyed. Do not remove this label.</p>

Back of Label

9505323 REV A	INSTALLATION Step 1: Mark location for anchor. Observe minimum edge distance and spacing requirements. See reverse side of label for additional requirements. Step 2: Drill 11/16", 18mm, or 3/4" diameter hole to a depth of 4 3/8 inches. Step 3: Clean hole using blow-out bulb or compressed air. Step 4: Tap anchor into hole using a hammer. Anchor flange must seat firmly against concrete. Step 5: Tighten bolt to 59 ft-lbs
	Concrete minimum compressive strength 3000 psi. Not for use in lightweight concrete, hollow block, brick, grout, or stone.

Front of Label

<p>Hole size: 4 3/8 in. deep X 11/16 in., 18mm, or 3/4 in diameter</p> <p>Min. Anchor Spacing (s) : 10 in.</p> <p>Min. Edge Distance (e) : 15 in.</p> <p>Min. Base Thickness (h) : 6 1/2 in.</p> <p>INSPECTION: Inspect anchor before each use. Do not use if inspection reveals unsafe or defective condition.</p>	
---	---

Back of Label

INSPECTION AND MAINTENANCE LOG

SERIAL NUMBER:			
MODEL NUMBER:			
DATE PURCHASED:		DATE OF FIRST USE:	

INSPECTION DATE	INSPECTION ITEMS NOTED	CORRECTIVE ACTION	MAINTENANCE PERFORMED
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
</			

INSPECTION AND MAINTENANCE LOG

SERIAL NUMBER:

MODEL NUMBER:

DATE PURCHASED:

DATE OF FIRST USE:

[illegible]

LIMITED LIFETIME WARRANTY

Warranty to End User: D B Industries, Inc., dba CAPITAL SAFETY USA ("CAPITAL SAFETY") warrants to the original end user ("End User") that its products are free from defects in materials and workmanship under normal use and service. This warranty extends for the lifetime of the product from the date the product is purchased by the End User, in new and unused condition, from a CAPITAL SAFETY authorized distributor. CAPITAL SAFETY'S entire liability to End User and End User's exclusive remedy under this warranty is limited to the repair or replacement in kind of any defective product within its lifetime (as CAPITAL SAFETY in its sole discretion determines and deems appropriate). No oral or written information or advice given by CAPITAL SAFETY, its distributors, directors, officers, agents or employees shall create any different or additional warranties or in any way increase the scope of this warranty. CAPITAL SAFETY will not accept liability for defects that are the result of product abuse, misuse, alteration or modification, or for defects that are due to a failure to install, maintain, or use the product in accordance with the manufacturer's instructions.

CAPITAL SAFETY'S WARRANTY APPLIES ONLY TO THE END USER. THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO OUR PRODUCTS AND IS IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, EXPRESSED OR IMPLIED. CAPITAL SAFETY EXPRESSLY EXCLUDES AND DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SHALL NOT BE LIABLE FOR INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION, LOST PROFITS, REVENUES, OR PRODUCTIVITY, OR FOR BODILY INJURY OR DEATH OR LOSS OR DAMAGE TO PROPERTY, UNDER ANY THEORY OF LIABILITY, INCLUDING WITHOUT LIMITATION, CONTRACT, WARRANTY, STRICT LIABILITY, TORT (INCLUDING NEGLIGENCE) OR OTHER LEGAL OR EQUITABLE THEORY.



Trusted Quality Fall Protection

CSG USA & Latin America

3833 SALA Way
Red Wing, MN 55066-5005
Toll Free: 800.328.6146
Phone: 651.388.8282
Fax: 651.388.5065
solutions@capitalsafety.com

CSG Canada

260 Export Boulevard
Mississauga, ON L5S 1Y9
Phone: 905.795.9333
Toll-Free: 800.387.7484
Fax: 888.387.7484
info.ca@capitalsafety.com

CSG Northern Europe

5a Merse Road
North Moons, Moat
Reditch, Worcestershire, UK
B98 9HL
Phone: + 44 (0)1527 548 000
Fax: + 44 (0)1527 591 000
csgne@capitalsafety.com

CSG EMEA (Europe, Middle East, Africa)

Le Broc Center
Z.I. 1ère Avenue
5600 M B.P. 15 06511
Carros
Le Broc Cedex
France
Phone: + 33 4 97 10 00 10
Fax: + 33 4 93 08 79 70
information@capitalsafety.com

CSG Australia & New Zealand

95 Derby Street
Silverwater
Sydney NSW 2128
AUSTRALIA
Phone: +(61) 2 8753 7600
Toll-Free : 1 800 245 002 (AUS)
Toll-Free : 0800 212 505 (NZ)
Fax: +(61) 2 87853 7603
sales@capitalsafety.com.au

CSG Asia

Singapore:
16S, Enterprise Road
Singapore 627666
Phone: +65 - 65587758
Fax: +65 - 65587058
inquiry@capitalsafety.com

Shanghai:

Rm 1406, China Venturetech Plaza
819 Nan Jing Xi Rd,
Shanghai 200041, P R China
Phone: +86 21 62539050
Fax: +86 21 62539060

www.capitalsafety.com

