



Fall Protection

ANSI Z359.18  
Type A

OSHA 1926.502  
OSHA 1910.140

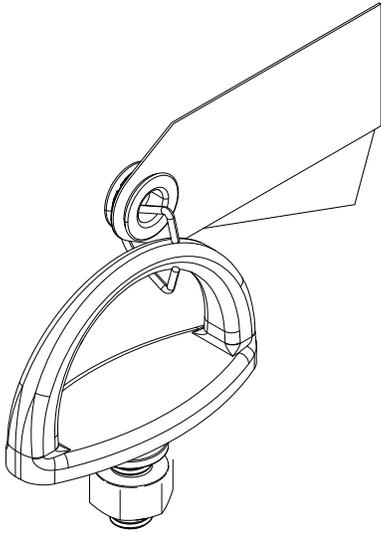
# D-BOLT ANCHOR

Anchorage Connector

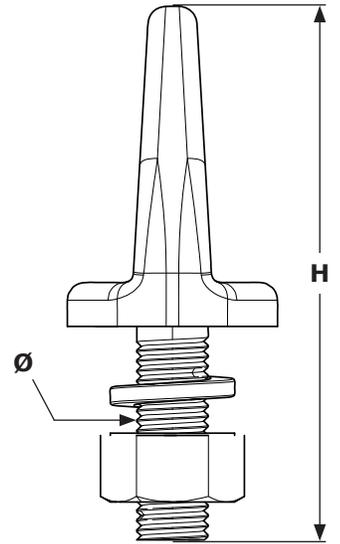
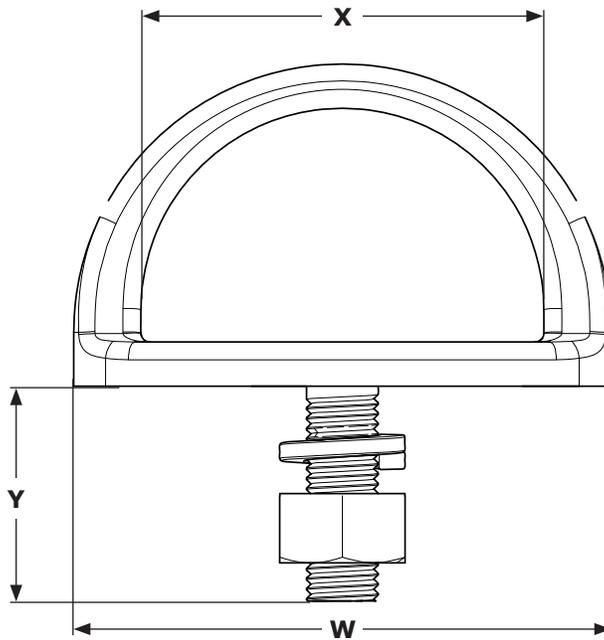
## USER INSTRUCTIONS

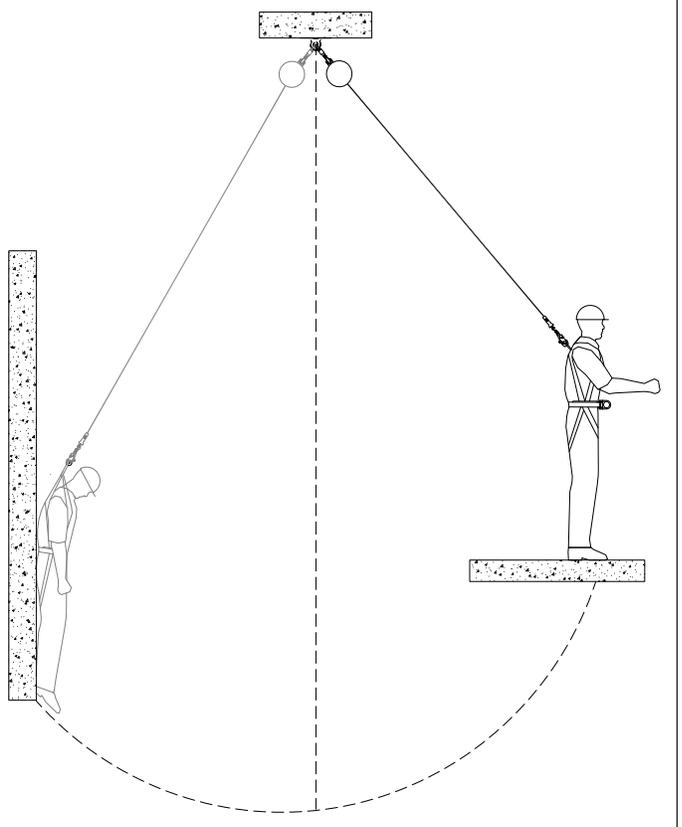
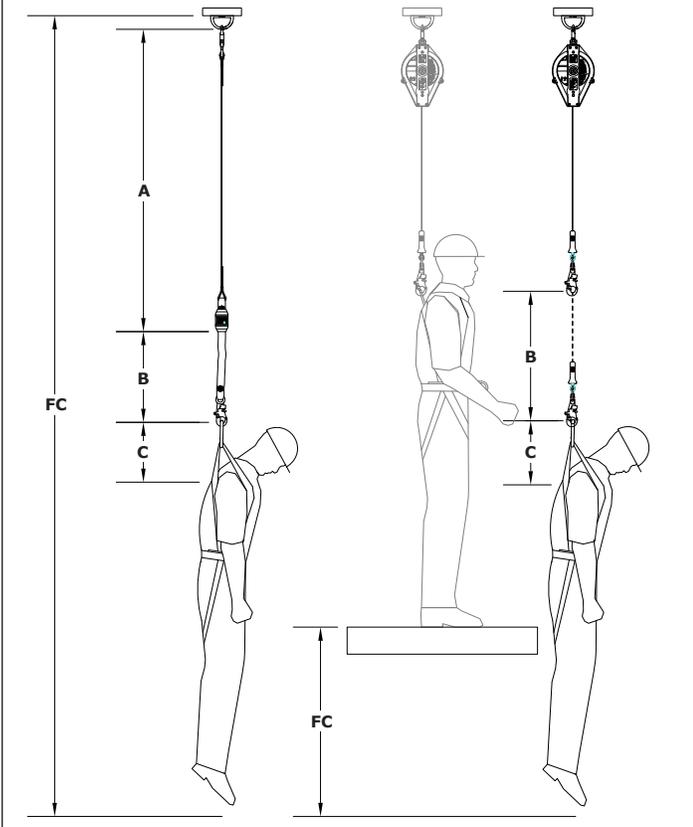
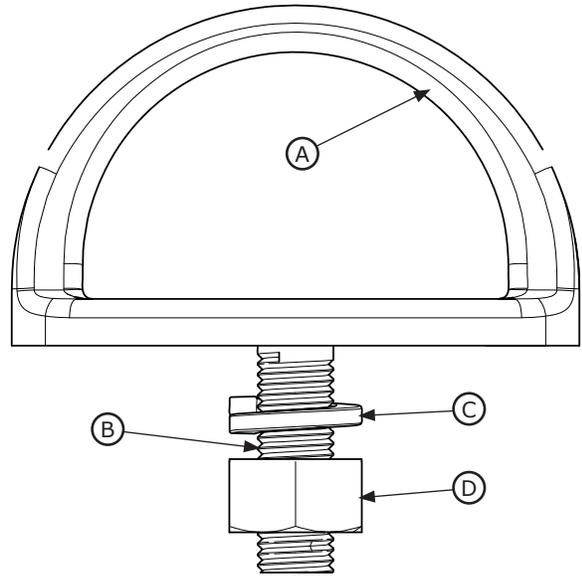
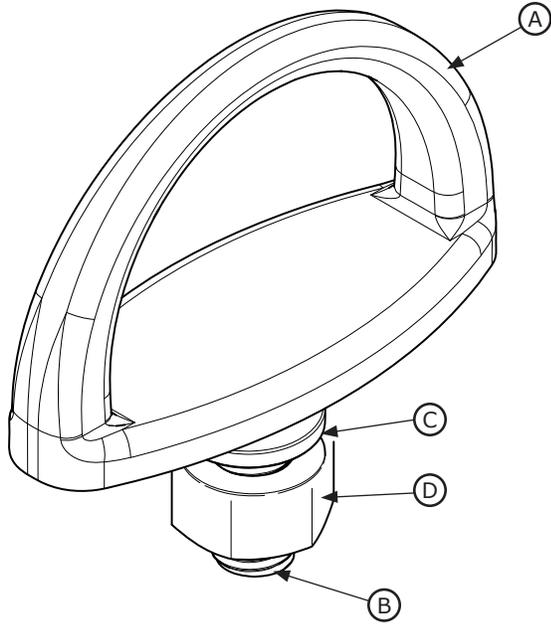
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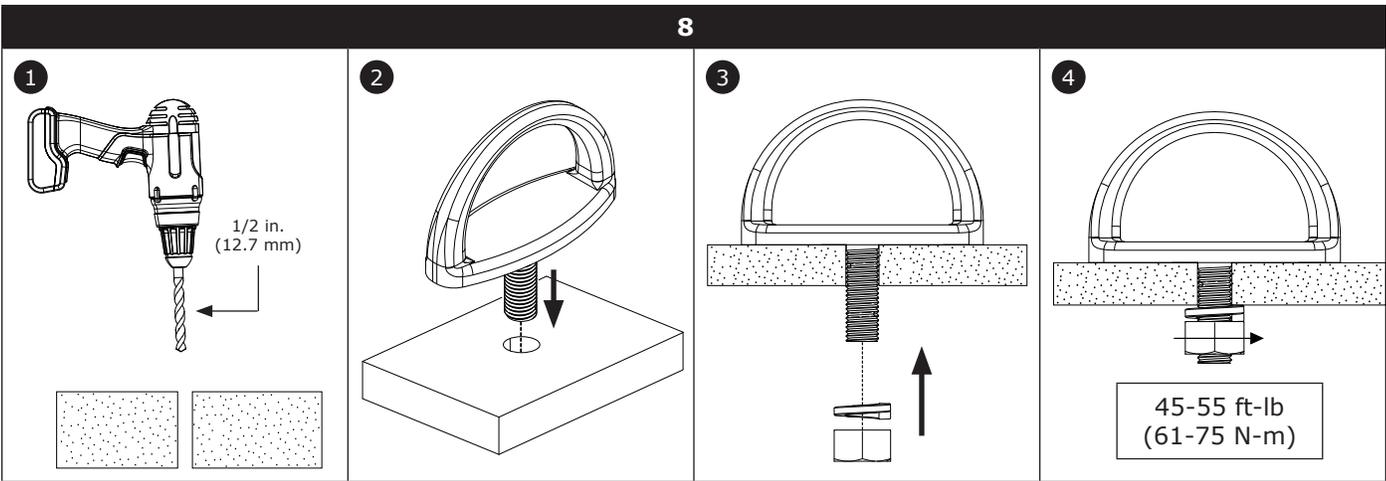
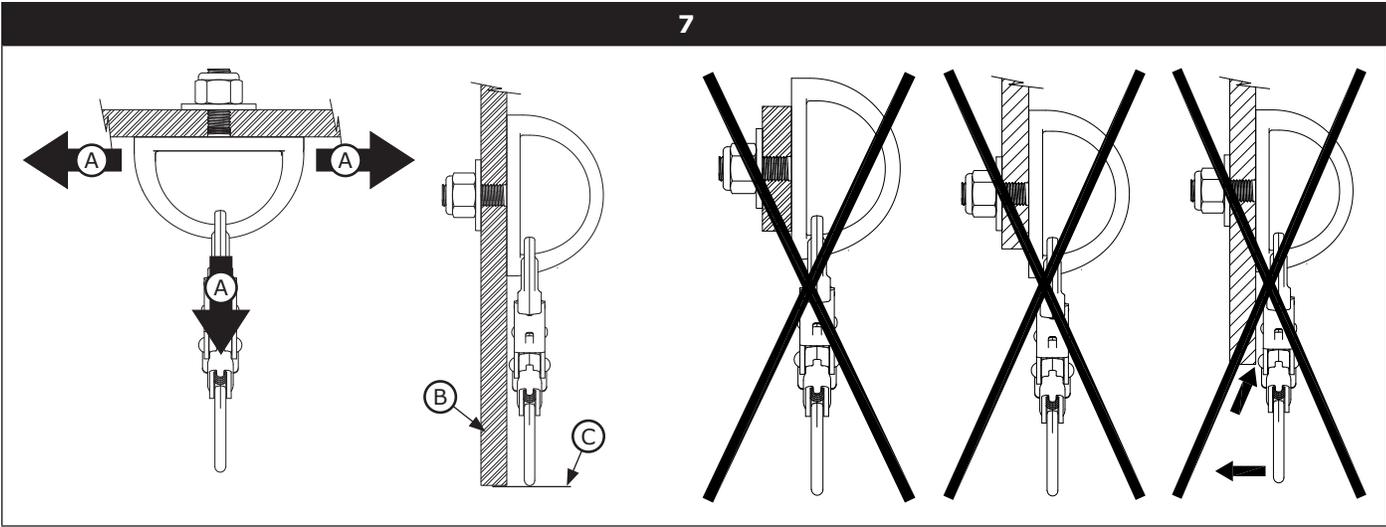
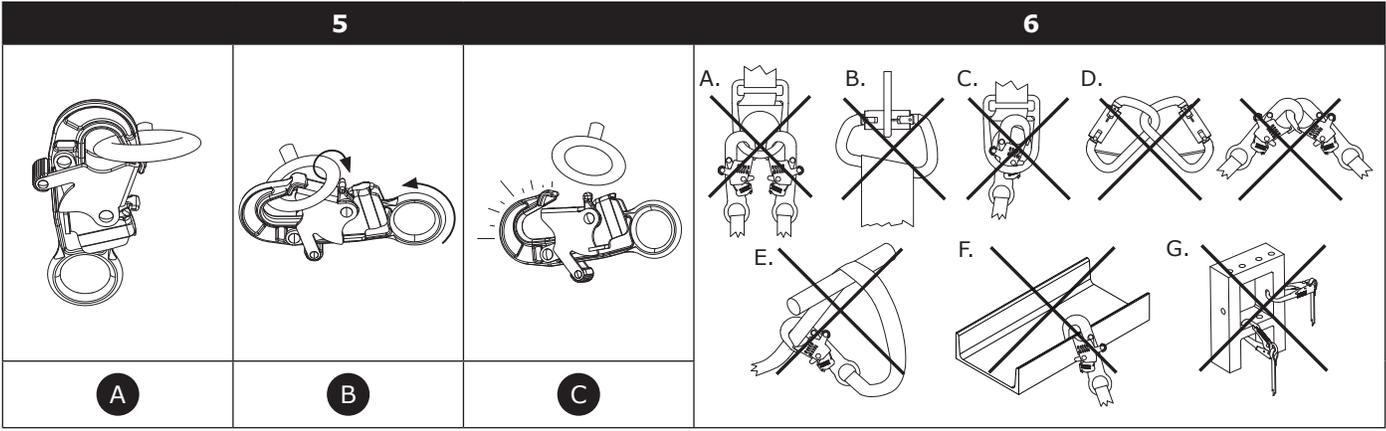
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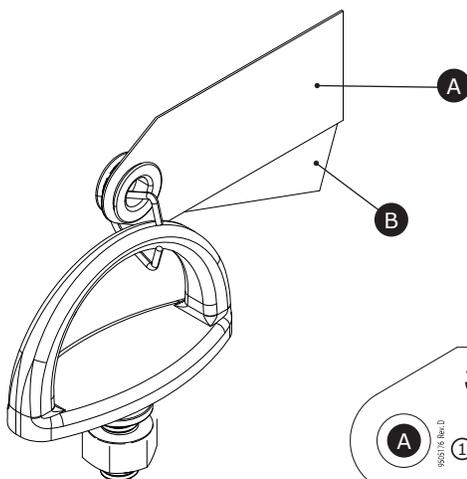
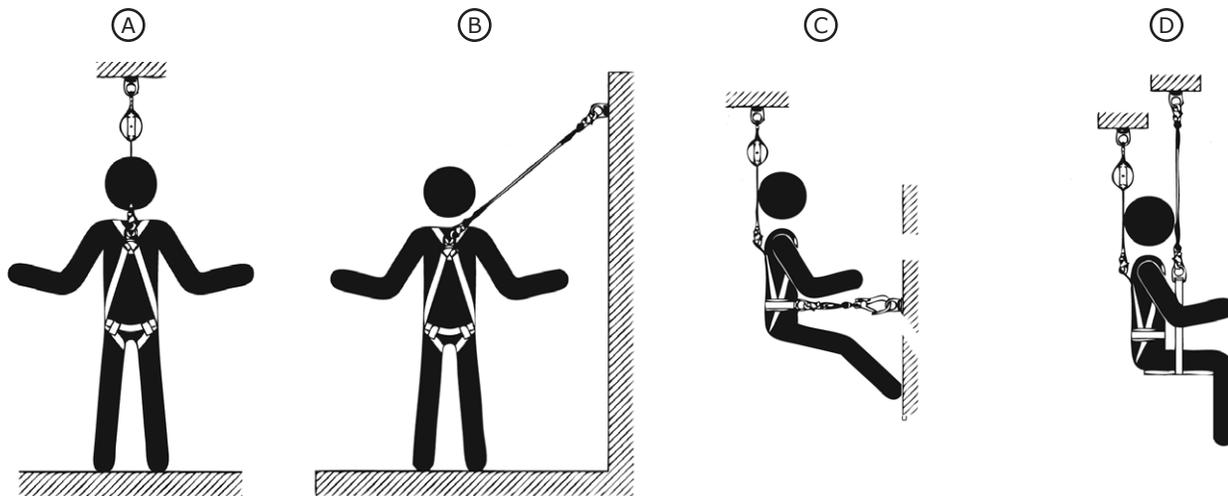


	W	X	Y	H	Ø
<b>AN112A</b>	3.75 in. (9.53 cm)	2.19 in. (7.14 cm)	1.50 in. (3.81 cm)	3.75 in. (9.53 cm)	1/2 in. (12.7 mm)









**1** Anchorage Connector  
 Meets ANSI Z359.18 Type A  
 Min. Breaking Strength: 5000 lbs. (22kN)  
 Min. Service Temperature: -40°F (-40°C)  
 ANSI Capacity: 310 lbs. (141 kg)

**3M** | **PROTECTA**  
 Fall Protection

This product complies with the following standards only if marked with the corresponding letter code under the "STDS" section:  
 A = OSHA 1910.140 & 1926.502  
 B = ANSI Z359.18 - Type A

3M.com/FallProtection

**1** Materials: D-ring -  Alloy steel,  Stainless steel

**2** MFRD(YR/MO)/LOT NO:      **3** MODEL NO:      **4** STDS:      **5** Capacity: One person, 310 lbs

**6** **⚠ WARNING**

Manufacturer's instructions supplied with this product at time of shipment must be followed. Failure to do so could result in serious injury or death. This D-bolt anchorage connector is intended to couple a personal fall arrest system to a structure. See user instruction manual for installation instructions, inspection criteria, and proper method of coupling D-bolt to personal fall arrest system. Connecting hardware must be compatible in size, shape and strength. Do not exceed capacity of this or other system components. Items subject to fall arrest impact forces must be removed from service and destroyed. Maximum allowable arresting force: 1800 lbs. Do not remove this label.

## SAFETY INFORMATION

**Please read, understand, and follow all safety information contained in these instructions prior to the use of this Anchorage Connector. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH.**

**These instructions must be provided to the user of this equipment. Retain these instructions for future reference.**

### Intended Use:

This Anchorage Connector is intended for use as part of a complete personal fall protection system.

Use in any other application including, but not limited to, material handling, recreational or sports related activities, or other activities not described in the User Instructions, is not approved by 3M and could result in serious injury or death.

This device is only to be used by trained users in workplace applications.

### WARNING

This Anchorage Connector is part of a personal fall protection system. It is expected that all users be fully trained in the safe installation and operation of their personal fall protection system. **Misuse of this device could result in serious injury or death.** For proper selection, operation, installation, maintenance, and service, refer to these User Instructions and all manufacturer recommendations, see your supervisor, or contact 3M Technical Service.

- **To reduce the risks associated with working with an Anchorage Connector which, if not avoided, could result in serious injury or death:**
  - Inspect the device before each use, at least annually, and after any fall event. Inspect in accordance with the User Instructions.
  - If inspection reveals an unsafe or defective condition, remove the device from service and repair or replace according to the User Instructions.
  - Any device that has been subject to fall arrest or impact force must be immediately removed from service and destroyed.
  - The device must only be installed in the specified substrates or on structures detailed in the User Instructions. Installations and use outside the scope of this instruction must be approved by 3M Fall Protection.
  - The substrate or structure to which the anchorage connector is attached must be able to sustain the static loads specified for the anchor in the orientations permitted in the User Instructions.
  - Only connect other fall protection subsystems to the designated anchorage connection point on the device.
  - Prior to drilling or fastening, ensure no electric lines, gas lines, or other critical embedded systems will be contacted by the drill or the device.
  - Ensure that fall protection systems/subsystems assembled from components made by different manufacturers are compatible and meet the requirements of applicable standards, including the ANSI Z359 or other applicable fall protection codes, standards, or requirements. Always consult a Competent or Qualified Person before using these systems.
- **To reduce the risks associated with working at height which, if not avoided, could result in serious injury or death:**
  - Ensure your health and physical condition allow you to safely withstand all of the forces associated with working at height. Consult with your doctor if you have any questions regarding your ability to use this equipment.
  - Never exceed allowable capacity of your fall protection equipment.
  - Never exceed maximum free fall distance of your fall protection equipment.
  - Do not use any fall protection equipment that fails pre-use or other scheduled inspections, or if you have concerns about the use or suitability of the equipment for your application. Contact 3M Technical Services with any questions.
  - Some subsystem and component combinations may interfere with the operation of this equipment. Only use compatible connections. Consult 3M prior to using this equipment in combination with components or subsystems other than those described in the User Instructions.
  - Use extra precautions when working around moving machinery (e.g. top drive of oil rigs) electrical hazards, extreme temperatures, chemical hazards, explosive or toxic gases, sharp edges, or below overhead materials that could fall onto you or your fall protection equipment.
  - Use Arc Flash or Hot Works devices when working in high heat environments.
  - Avoid surfaces and objects that can damage the user or equipment.
  - Ensure there is adequate fall clearance when working at height.
  - Never modify or alter your fall protection equipment. Only 3M or parties authorized in writing by 3M may make repairs to the equipment.
  - Prior to use of fall protection equipment, ensure a rescue plan is in place which allows for prompt rescue if a fall incident occurs.
  - If a fall incident occurs, immediately seek medical attention for the worker who has fallen.
  - Do not use a body belt for fall arrest applications. Use only a Full Body Harness.
  - Minimize swing falls by working as directly below the anchorage point as possible.
  - If training with this device, a secondary fall protection system must be utilized in a manner that does not expose the trainee to an unintended fall hazard.
  - Always wear appropriate personal protective equipment when installing, using, or inspecting the device/system.

Prior to installation and use of this equipment, record the product identification information from the ID label in the Inspection and Maintenance Log (Table 2) at the back of this manual.

Always ensure you are using the latest revision of your 3M instruction manual. Visit the 3M website or contact 3M Technical Services for updated instruction manuals.

**PRODUCT DESCRIPTION:**

Figure 1 illustrates the 3M™ DBI-SALA™ D-Bolt Anchor. The D-Bolt Anchor is a single point anchorage connector for a Fall Arrest system designed to be attached to a supporting structure. The D-Bolt Anchor may also be used as an end termination for 3M-approved ANSI Z359.18 Type A Horizontal Lifeline Systems.

Figure 2 illustrates components of the D-Bolt Anchor. See Table 1 for Component Specifications. The D-Bolt Anchor is comprised of the D-Bolt (A) and its Locking Thread (B). The Lock Washer (C) and Nut (D) are used to the D-Bolt Anchor in an installation.

**Table 1 – Specifications**

<b>System Specifications:</b>		
<b>Capacity:</b>	One user with a combined weight (including clothing, tools, etc.) of no more than 310 lb. (140 kg).	
<b>Standards:</b>	The D-Bolt Anchor is tested in accordance with the requirements of the standards listed on the front cover of these instructions. <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <input checked="" type="checkbox"/> <b>ANSI Z359.7 COMPLIANT:</b> This Anchorage Connector has been tested for compliance with the requirements of ANSI/ASSE Z359.7. Testing covers only the the Anchorage Connector and does not extend to the anchorage and substrate to which the Anchorage Connector is attached.           </div>	
<b>Anchorage Strength:</b>	Anchorage strength must comply with Section 2.1 requirements. <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <input checked="" type="checkbox"/> If the user is unable to determine whether the anchorage meets these requirements, then the user should either seek a Qualified Person or professional engineer who is able to do so or contact 3M Technical Services.           </div>	
<b>Service Temperature:</b>	-40°C (-40°F) Minimum Service Temperature	
<b>Minimum Breaking Strength:</b>	5,000 lbf (22.2 kN) Minimum Breaking Strength	
<b>Dimensions:</b>	See Figure 1 for the dimensions of the D-Bolt Anchor.	
<b>Weight:</b>	0.69 lb. (312 g)	
<b>Component Specifications:</b>		
<b>Figure 2 Reference</b>	<b>Component</b>	<b>Materials</b>
(A)	D-Bolt	Zinc-plated steel
(B)	Locking Thread	Zinc-plated steel
(C)	Lock Washer	Zinc-plated steel
(D)	Nut	Zinc-plated steel

## 1.0 PRODUCT APPLICATION

- 1.1 PURPOSE:** Anchorage Connectors are designed to provide anchorage connection points for Fall Arrest<sup>1</sup>, Fall Restraint<sup>2</sup>, Work Positioning<sup>3</sup>, or Rescue<sup>4</sup> systems.

**Fall Protection Only:** This Anchorage Connector is for connection of Fall Protection equipment. Do not connect Lifting Equipment to the Anchorage Connector.

- 1.2 STANDARDS:** Your Anchorage Connector conforms to the national or regional standard(s) identified on the front cover of these instructions. If this product is resold outside the original country of destination, the re-seller must provide these instructions in the language of the country in which the product will be used.
- 1.3 SUPERVISION:** Use of this equipment must be supervised by a Competent Person<sup>5</sup>.
- 1.4 TRAINING:** This equipment must be installed and used by persons trained in its correct application. This manual is to be used as part of an employee training program as required by national, regional, or local standards. It is the responsibility of the users and installers of this equipment to ensure they are familiar with these instructions, trained in the correct care and use of this equipment, and are aware of the operating characteristics, application limitations, and consequences of improper use of this equipment.
- 1.5 RESCUE PLAN:** When using this equipment and connecting subsystem(s), the employer must have a rescue plan and the means at hand to implement and communicate that plan to users<sup>6</sup>, authorized persons<sup>7</sup>, and rescuers<sup>8</sup>. A trained, on-site rescue team is recommended. Team members should be provided with the equipment and techniques to perform a successful rescue. Training should be provided on a periodic basis to ensure rescuer proficiency.
- 1.6 AFTER A FALL:** If the product is subjected to fall arrest or impact force, remove the product from service immediately. Clearly tag the product "DO NOT USE". See Section 5 for more information.

## 2.0 SYSTEM REQUIREMENTS

- 2.1 ANCHORAGE:** Anchorage structure requirements vary with the system application and whether it is a certified anchorage<sup>9</sup> or non-certified anchorage<sup>10</sup>. The structure to which a Fall Arrest, Restraint, Work Positioning, or Rescue system is attached must sustain static loads applied in the directions permitted as shown in the following table. Anchorage strength requirements, along with system applications, are specified below, unless noted or defined otherwise in Table 1:

Fall Protection System	Certified Anchorage <sup>9</sup>	Non-Certified Anchorage <sup>10</sup>	Defined by
Fall Arrest	2 times maximum arresting force	5,000 lbf (22.2 kN)	OSHA, ANSI
Restraint/Travel Restraint	2 times foreseeable force	1,000 lbf (4.4 kN) per ANSI 5,000 lbf (22.2 kN) per OSHA	OSHA, ANSI
Work Positioning	2 times foreseeable force	3,000 lbf (13.3 kN)	OSHA, ANSI
Rescue	5 times applied load	3,000 lbf (13.3 kN)	ANSI

When more than one system is attached to an anchorage, the strengths stated above must be multiplied by the number of systems attached to the anchorage. See ANSI Z359.2 for more information.

- 2.2 PERSONAL FALL ARREST SYSTEM:** Figure 1 illustrates the application of this Anchorage Connector. Personal Fall Arrest Systems (PFAS) used with the system must meet applicable Fall Protection standards, codes, and requirements. The PFAS must incorporate a Full Body Harness and limit Arresting Force to the following values:

	Maximum Arresting Force	Free Fall
<b>PFAS with Shock Absorbing Lanyard</b>	1800 lbf (8 kN)	Refer to the instruction(s) included with your Lanyard or SRD for Free Fall limitations.
<b>PFAS with Self Retracting Device (SRD)</b>	1800 lbf (8 kN)	

- 2.3 FALL PATH AND SRD LOCKING SPEED:** A clear path is required to assure positive locking of an SRD. Situations which do not allow for an unobstructed fall path should be avoided. Working in confined or cramped spaces may not allow the body to reach sufficient speed to cause the SRD to lock if a fall occurs. Working on slowly shifting material, such as sand or grain, may not allow enough speed buildup to cause the SRD to lock.

- 1 Fall Arrest System:** A collection of Fall Protection Equipment configured to arrest a free fall. Protects the user in the event of a fall. Free fall is permitted up to the limits allowed by the connecting device (either an Energy Absorbing Lanyard or Self-Retracting Device (SRD)).
- 2 Restraint System:** A collection of Fall Protection Equipment configured to prevent the person's center of gravity from reaching a fall hazard. Prevents the user from reaching a hazard. No vertical free fall is permitted.
- 3 Work Positioning System:** A collection of Fall Protection Equipment configured to support a user at a work position. Must include a back-up personal fall arrest system. Maximum permissible free fall is 2 feet.
- 4 Rescue System:** A collection of Fall Protection Equipment configured to remove a person from danger, harm, or confinement to a safe location. No vertical free fall is permitted.
- 5 Competent Person:** One who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.
- 6 User:** A person who performs activities while protected by a Fall Protection system.
- 7 Authorized Person:** A person assigned by the employer to perform duties at a location where the person will be exposed to a fall hazard.
- 8 Rescuer:** Person or persons other than the rescue subject acting to perform an assisted rescue by operation of a rescue system.
- 9 Certified Anchorage:** An anchorage for fall arrest, positioning, restraint, or rescue systems that a Qualified Person certifies to be capable of meeting the criteria for a certified anchorage according to Section 2.1.
- 10 Non-Certified Anchorage:** A fall arrest anchorage that a Competent Person can judge to be capable of supporting the predetermined anchorage forces listed in Section 2.1.

- 2.4 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, explosive or toxic gases, moving machinery, sharp edges, or overhead materials that may fall and contact the user or Personal Fall Arrest System.
- 2.5 FALL CLEARANCE:** Figure 3 illustrates the components of a Fall Arrest. There must be sufficient Fall Clearance (FC) to arrest a fall before the user strikes the ground or other obstruction. Clearance is affected by a number of factors including: Anchorage Location, (A) Lanyard Length, (B) Lanyard Deceleration Distance or SRD Maximum Arrest Distance, (C) Harness Stretch and D-Ring/Connector Length and Settling. Refer to the instructions included with your Fall Arrest subsystem for specifics regarding Fall Clearance calculation.
- 2.6 SWING FALLS:** Swing Falls occur when the anchorage point is not directly above the point where a fall occurs (see Figure 4). The force of striking an object in a swing fall may cause serious injury or death. Minimize swing falls by working as directly below 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 Device or other variable length connecting subsystem is used.
- 2.7 COMPONENT COMPATIBILITY:** 3M equipment is designed for use with 3M approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and may affect the safety and reliability of the complete system.
- 2.8 CONNECTOR COMPATIBILITY:** 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 3M if you have any questions about compatibility.
- Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbf (22.2 kN). Connectors must be compatible with the anchorage or other system components. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage (see Figure 5). Connectors must be compatible in size, shape, and strength. If the connecting element to which a snap hook or carabiner attaches is undersized or irregular in shape, a situation could occur where the connecting element applies a force to the gate of the snap hook or carabiner (A). This force may cause the gate to open (B), allowing the snap hook or carabiner to disengage from the connecting point (C).
- Self-locking snap hooks and carabiners are required by ANSI Z359 and OSHA.
- 2.9 MAKING CONNECTIONS:** Snap hooks and carabiners used with this equipment must be self-locking. 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.
- 3M connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. See Figure 6 for examples of inappropriate connections. Do not connect snap hooks and carabiners:
- A. To a D-ring to which another connector is attached.
  - B. In a manner that would result in a load on the gate. Large throat 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, unless the snap hook complies is equipped with a 3,600 lbf (16 kN) gate. Check the marking on your snap hook to verify that it is appropriate for your application.
  - 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 allows 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.

### 3.0 INSTALLATION

*The owner of this equipment may contact 3M Technical Services with any questions regarding equipment installation, use, or inspection.*

*Installation of the DBI-SALA D-Bolt Anchor must be performed or supervised by a Competent Person for Non-Certified Anchorages. A Qualified Person<sup>1</sup> shall supervise the design, selection, installation, use, and inspection of Certified Anchorages.*

**3.1 PLANNING:** Plan your Fall Protection system prior to installation of the D-Bolt Anchor. Account for all factors that may affect your safety before, during and after a fall. Consider all requirements, limitations and specifications defined in Section 2 and Table 1. Select a concrete location that is free of any cracks or other defects that could affect the strength of the concrete structure.

*3M shall make available upon request information that is necessary for the design and planning of systems.*

**3.2 DIRECTIONS OF LOADING:** The D-Bolt Anchor must be installed such that use of the D-Bolt Anchor applies force in the proper direction. See Figure 7 for reference. The D-Bolt Anchor may sustain force in the indicated Directions of Loading (A). In addition, the amount of space on the Structure (B) extending beyond the D-Bolt Anchor must be equal to or greater than the length of the Connector (C) attached to the D-Bolt Anchor during use.

**3.3 INSTALLING THE D-BOLT ANCHOR:** The D-Bolt Anchor can be installed on structures meeting the anchorage requirements specified in Table 1. See Section 3.2 for proper loading of the D-Bolt Anchor. Figure 8 illustrates installation of the D-Bolt Anchor. To install the D-Bolt Anchor:

1. Drill a 1/2-inch (13 mm) hole into the concrete or metal structure, using a suitable drill bit for penetration. Remove any burred edges from the structure to ensure that the D-Bolt Anchor sits flush against the mounting surface. The location of the drilled hole must be sufficient for the D-Bolt Anchor to sustain the force requirements listed in Table 1.
2. Insert the D-Bolt Anchor through the drilled hole. Ensure that the bolt is pushed through completely. The bottom of the D-Bolt should be flush against the structure.
3. Slide the Lock Washer over the Locking Thread of the D-Bolt Anchor, pressing the Lock Washer flush against the structure. Slide the Nut over the Locking Thread after the Lock Washer.
4. Tighten the D-Bolt by torquing the Nut within the range of 45-55 ft-lb (61-75 N-m). Once tightened, at least one full thread must extend beyond the Nut.

*Do not use an impact driver or drill for installation of the D-Bolt Anchor. Only a wrench should be used for torquing of the D-Bolt Anchor.*

### 4.0 USE

**4.1 BEFORE EACH USE:** Verify that your work area and Fall Protection system meet all criteria defined in these instructions. Verify that a formal Rescue Plan is in place. Inspect the D-Bolt Anchor per the 'User' inspection points defined on the "Inspection and Maintenance Log". If inspection reveals an unsafe or defective condition, or if there is any doubt about its condition for safe use, remove the D-Bolt Anchor from service immediately. Clearly tag the system "DO NOT USE". See Section 5 for more information.

**4.2 SYSTEM APPLICATIONS:** The D-Bolt Anchor is designed for use in several Fall Protection applications. See Figure 9 for reference. The system applications are:

- A. Fall Arrest:** Full Body Harness and connecting subsystem, such as an SRD or Energy-Absorbing Lanyard.
- B. Restraint:** Full Body Harness and lanyard or restraint line.
- C. Work Positioning:** Full Body Harness, positioning lanyard and a back-up Fall Arrest system. Includes Suspension.
- D. Rescue:** Configured, depending on the type of rescue, to an anchorage.

**4.3 REMOVAL AND REUSE:** To remove the D-Bolt Anchor, loosen and remove the Nut on the bottom of the Locking Thread. Then, remove the Lock Washer and remove the D-Bolt Anchor from the installation. The D-Bolt Anchor may be reused as long as it satisfies all inspection criteria.

### 5.0 INSPECTION

*After product has been removed from service, it may not be returned to service until a Competent Person confirms in writing that it is acceptable to do so.*

**5.1 INSPECTION FREQUENCY:** The product shall be inspected before each use by an authorized person and, additionally, by a Competent Person other than the user at intervals of no longer than one year. A higher frequency of equipment use and harsher conditions may require increasing the frequency of Competent Person inspections. The frequency of these inspections should be determined by the Competent Person per the specific conditions of the worksite.

**5.2 INSPECTION PROCEDURES:** Inspect this product per the procedures listed in the "Inspection and Maintenance Log". Documentation of each inspection should be maintained by the owner of this equipment. An inspection and maintenance log should be placed near the product or be otherwise easily accessible to users. It is recommended that the product is marked with the date of next or last inspection.

*Alternative inspection criteria may be set by the owner of this equipment. Alternative criteria must be equal to or exceed those established by 3M in the "Inspection and Maintenance Log" and other official documents.*

**1 Qualified Person:** An individual with a recognized degree or professional certificate, and extensive experience in Fall Protection. This individual must be capable of design, analysis, evaluation, and specification in Fall Protection.

- 5.3 DEFECTS:** If the product cannot be returned to service because of an existing defect or unsafe condition, or because it has been subjected to a fall arrest, either destroy the product or contact 3M regarding possible replacement or repair.
- 5.4 PRODUCT LIFE:** The functional life of the D-Bolt Anchor is determined by work conditions and maintenance. As long as the product passes inspection criteria, it may remain in service.

**6.0 MAINTENANCE, SERVICE, and STORAGE**

*Equipment that is in need of maintenance or scheduled for maintenance should be tagged "DO NOT USE". These equipment tags should not be removed until maintenance is performed.*

- 6.1 CLEANING:** Periodically clean the D-Bolt Anchor’s metal components with a soft brush, warm water, and a mild soap solution. Ensure parts are thoroughly rinsed with clean water.
- 6.2 SERVICE:** Only 3M or parties authorized in writing by 3M may make repairs to this equipment.
- 6.3 STORAGE AND TRANSPORT:** When not in use, store and transport the D-Bolt Anchor and associated Fall Protection equipment in a cool, dry, clean environment out of direct sunlight. Avoid areas where chemical vapors may exist. Thoroughly inspect components after extended storage.

**7.0 LABELS and MARKINGS**

- 7.1 LABELS:** Figure 10 illustrates labels on the D-Bolt Anchor. Labels must be replaced if they are not present or fully legible. Information provided on each label is as follows:

<b>A</b>	<ul style="list-style-type: none"> <li>1) Materials</li> <li>2) Manufactured (Year/Month) and Lot Number</li> <li>3) Model Number</li> <li>4) Applicable Standards</li> <li>5) Capacity</li> <li>6) Warning Statement</li> </ul>
<b>B</b>	<ul style="list-style-type: none"> <li>1) In order: Product Type; Applicable Standards; Minimum Breaking Strength; Minimum Service Temperature; Capacity</li> </ul>



## GLOBAL PRODUCT WARRANTY, LIMITED REMEDY AND LIMITATION OF LIABILITY

**WARRANTY:** THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Unless otherwise provided by local laws, 3M fall protection products are warranted against factory defects in workmanship and materials for a period of one year from the date of installation or first use by the original owner.

**LIMITED REMEDY:** Upon written notice to 3M, 3M will repair or replace any product determined by 3M to have a factory defect in workmanship or materials. 3M reserves the right to require product be returned to its facility for evaluation of warranty claims. This warranty does not cover product damage due to wear, abuse, misuse, damage in transit, failure to maintain the product or other damage beyond 3M's control. 3M will be the sole judge of product condition and warranty options.

This warranty applies only to the original purchaser and is the only warranty applicable to 3M's fall protection products. Please contact 3M's customer service department in your region for assistance.

**LIMITATION OF LIABILITY:** TO THE EXTENT PERMITTED BY LOCAL LAWS, 3M IS NOT LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO LOSS OF PROFITS, IN ANY WAY RELATED TO THE PRODUCTS REGARDLESS OF THE LEGAL THEORY ASSERTED.



Fall Protection

### USA

3833 SALA Way  
Red Wing, MN 55066-5005  
Toll Free: 800.328.6146  
Phone: 651.388.8282  
Fax: 651.388.5065  
3Mfallprotection@mmm.com

### Brazil

Rodovia Anhanguera, km 110  
Sumaré - SP  
CEP: 13181-900  
Brasil  
Phone: 0800-013-2333  
falecoma3m@mmm.com

### Mexico

Av. Santa Fe No. 190  
Col. Santa Fe, Ciudad de Mexico  
CP 01219, Mexico  
Phone: 01 800 120 3636  
3msaludocupacional@mmm.com

### Canada

260 Export Boulevard  
Mississauga, ON L5S 1Y9  
Phone: 905.795.9333  
Toll-Free: 800.387.7484  
Fax: 888.387.7484  
3Mfallprotection-ca@mmm.com

### EMEA (Europe, Middle East, Africa)

*EMEA Headquarters:*  
Le Broc Center  
Z.I. 1re Avenue - BP15  
06511 Carros Le Broc Cedex  
France  
Phone: + 33 04 97 10 00 10  
Fax: + 33 04 93 08 79 70  
informationfallprotection@mmm.com

### Australia & New Zealand

137 McCredie Road  
Guildford  
Sydney, NSW, 2161  
Australia  
Toll-Free : 1800 245 002 (AUS)  
Toll-Free : 0800 212 505 (NZ)  
3msafetyaucs@mmm.com

### Asia

*Singapore:*  
1 Yishun Avenue 7  
Singapore 768923  
Phone: +65-6450 8888  
Fax: +65-6552 2113  
TotalFallProtection@mmm.com

### China:

38/F, Maxdo Center, 8 Xing Yi Rd  
Shanghai 200336, P R China  
Phone: +86 21 62753535  
Fax: +86 21 52906521  
3MFallProtection-CN@mmm.com

### Korea:

3M Korea Ltd  
20F, 82, Uisadang-daero,  
Yeongdeungpo-gu, Seoul  
Phone: +82-80-033-4114  
Fax: +82-2-3771-4271  
TotalFallProtection@mmm.com

### Japan:

3M Japan Ltd  
6-7-29, Kitashinagawa, Shinagawa-ku, Tokyo  
Phone: +81-570-011-321  
Fax: +81-3-6409-5818  
psd.jp@mmm.com

WEBSITE:  
[3M.com/FallProtection](http://3M.com/FallProtection)



EU DECLARATION OF CONFORMITY:  
[3M.com/FallProtection/DOC](http://3M.com/FallProtection/DOC)