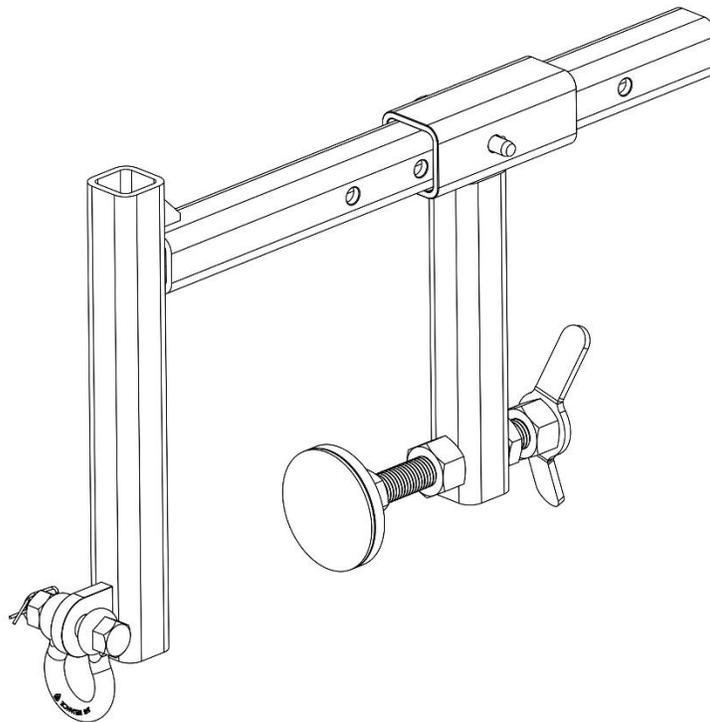




**Reliance Industries, LLC**

## **Installation, Operation, Inspection and Maintenance Instructions for the Parapet Anchor**

**Part Number 3056-1**



**Reliance Industries, LLC  
Deer Park, TX 77536  
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Fax (281) 930-8666**

## Important Instructions!

These instructions must be kept on file and available for the users reference at **all** times. The users must read and full understand these instructions or have the instructions explained in detail before using this equipment. **Failure to observe these instructions could result in serious injury or death.**

Prior to use, all workers must be trained in the proper use of all systems and equipment.

A Training and Instruction review should be repeated at regular intervals.

A rescue plan must be prepared; the workers must be trained in its use, and rescue equipment must be on hand prior to any use of this Parapet Anchor system.

Any questions regarding these instructions should be directed to:

Reliance Industries, LLC  
Deer Park, TX 77536  
Ph. (888) 362-2826  
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**User Instructions**  
**3056 Parapet Anchor**



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## Important OSHA Regulations Covering the Use of Fall Arrest Anchorage Systems

**OSHA 1926.502 (d)(15):**

Anchorage used for attachment of personal fall arrest equipment shall be independent of any anchorage being used to support or suspend platforms and capable of supporting at least 5,000-lb (22 kN) per employee attached, or shall be designed, installed, and used as follows:

**(d)(15)(i):**

as part of a complete personal fall arrest system which maintains a safety factor of at least two; and

**(d)(15)(ii):**

under the supervision of a qualified person.

**OSHA 1926.502 (d)(16)(iii):**

Personal fall arrest systems shall be rigged such that an employee can neither free-fall more than 6-ft. nor contact any lower surface.

**OSHA 1926.502 (d)(21):**

Personal fall arrest systems shall be inspected prior to each use for wear, damage and other deterioration, and defective components shall be removed from service.

**OSHA 1926.502 (d)(19):**

Personal fall arrest systems and components subjected to impact loading shall be immediately removed from service and shall not be used again for employee protection until inspected and determined by a competent person to be undamaged and suitable for reuse.

## System Description

The Parapet Anchor is one component of a personal fall arrest system that is designed to attach to vertical parapet walls in order to anchor a self-retracting lifeline (SRL) or shock absorbing lanyard (SAL) that a single worker can use for fall arrest. The Parapet Anchor and SRL or SAL, provides fall protection for a single individual. Do not use for on anchorage component of a Horizontal lifeline. Do not use to hang, lift or support tools or equipment.

The system is used in conjunction with a full-body harness for the worker and a self-retracting lanyard (SRL) or shock absorbing lanyard (SAL) using double-action single-locking snap hooks to attach to the dorsal D-ring of the harness. Any attachments to the Parapet Anchor must transfer fall arrest forces to the body through the dorsal d-ring of the full body harness only. Harness side and chest d-rings are not allowable connection points.

**Capacity:** 400 pounds (181kg) including the weight of the person and any clothing or tools.

**Minimum Breaking Strength:** 5,000 pounds (22.2kN)

**Meets:** OSHA Requirements

## Anchorage Points

The Parapet Anchor is designed to be attached to a vertical structural member with a thickness of 1.5 – 15.5 inches. The structural member to which the Parapet Anchor is attached, must be capable of sustaining a 5000 pound load applied at the connection bow-shackle of the Parapet Anchor in all intended and allowed directions of loading. If there are questions concerning the suitability of the structural member for anchoring a Parapet Anchor to, please contact Reliance Industries at 303-424-8650 prior to use.

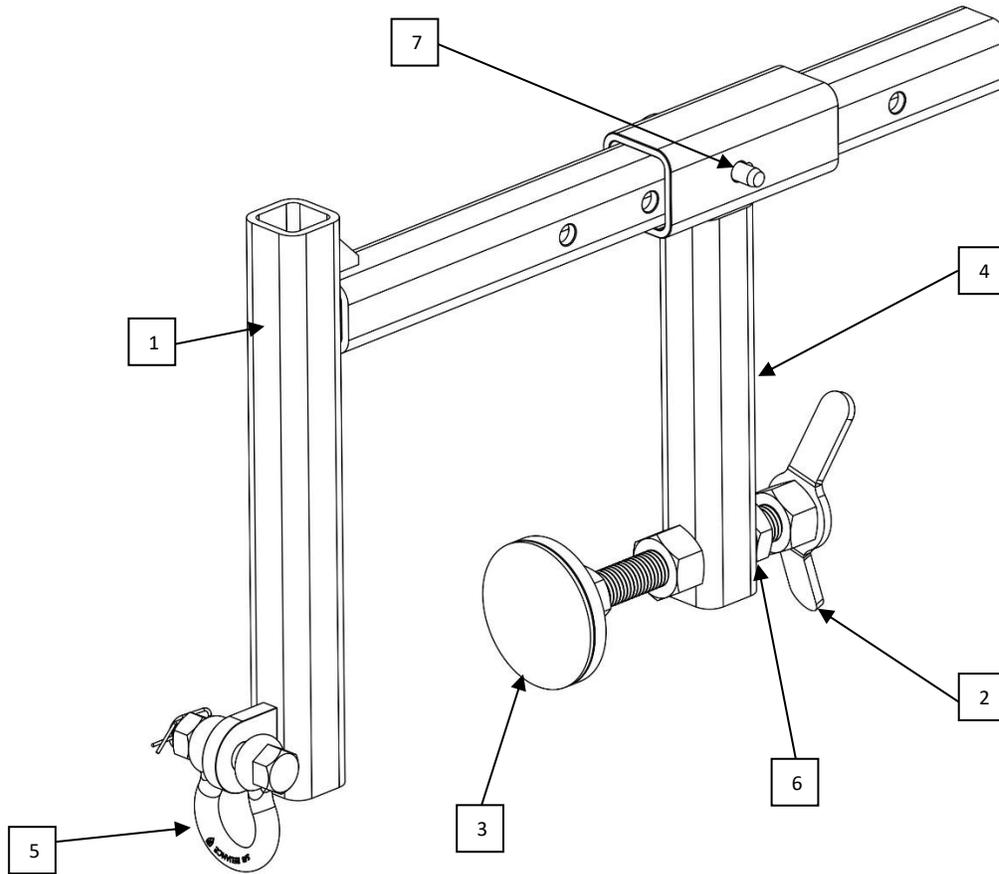
## Materials of Construction

Parapet Anchor: Zn plated steel

Bow-Shackle: Stainless Steel

## Parapet Anchor

The Parapet Anchor consists of the following standard approved and compatible components:



1. Fixed Arm, 1 ea.
2. Adjustment Screw, 1 ea.
3. Adjustment Screw Pad, 1 ea.
4. Adjustable Arm, 1 ea.
5. Bow-Shackle, 1 ea.
6. Lock Nut, 1 ea.
7. Locking Pin, 1 ea.

Figure 1 - Parapet Anchor Parts Identification

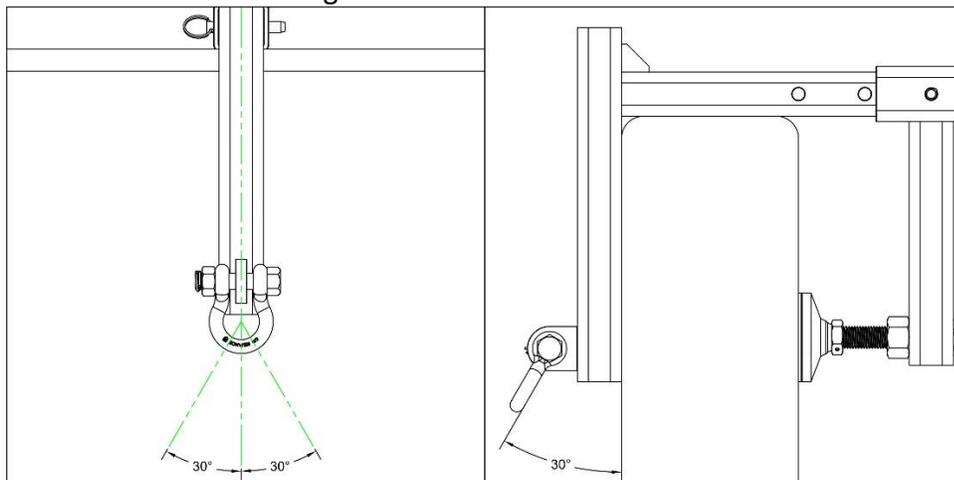
## Personal Fall Arrest Equipment Used with Parapet Anchor

Care should also be used in selecting harnesses for use with the Parapet Anchor. Harnesses with sewn down back pads can limit as much as 1 ft. of back pad slippage during fall arrest, giving additional clearance for safety. If the system will be used where a worker could encounter a head first free-fall, a non-secured back pad can slide down the webbing to the small of the back, allowing the worker to fall out of the harness through the top by allowing the harness straps to slip over the shoulders. For this reason, we recommend the use of full body, crossover or pullover type harness with sewn down or slip resistant back pads for all installations. Only a self-retracting lanyard (SRL) or shock absorbing lanyard (SAL) that limits forces to 1800 pounds or less can be used on this product. When using a snap hook to connect to the anchorage connector, ensure accidental disengagement cannot occur. Self-locking snap hook or self-locking and self-closing gate carabiners must be used to reduce the possibility of roll-out when making connections. Do not use non-locking snap hooks. Always follow the manufactures instructions supplied with each system component.

## Installation Layout Considerations and Limitations

The Parapet Anchor is used to provide fall protection while climbing or descending structural walls and parapets. The Parapet Anchor may only be installed on structural wall or parapet with a thickness of 1.5 to 15.5 inches with a minimum strength of 5000 lbs. as determined by a Component Person. An alternate form of fall protection must be used by the worker during installation. The Parapet Anchor may not be used as a fall protection anchorage until it has been certified for use.

Install so as not to exceed a 30° working angle, exceeding this may impart excessive swing fall and/or overload the Parapet Anchor or the anchorage structure.



**Figure 2 – Parapet Anchor Angular Limitations**

## Installation

Note: Installation of the Parapet Anchor should be done under the supervision of a Competent Person. Approved fall protection MUST be worn at all times during installation of the Parapet Anchor. Connection to the Parapet Anchor as an anchorage point for fall protection is not permitted until full installation has been completed and the anchor has been inspected and certified for use.

### Parapet Anchor Installation Procedures

#### To Install the Parapet Anchor

Turn the Adjustment Screw all the way to the open position (1). Pull out the Locking Pin (2). Slide the Adjustable Arm out wide enough for the Parapet Anchor to slide over the wall/parapet (3). Place the Parapet Anchor over the wall/parapet (4) making sure that the Parapet Anchor remains vertical (see figure 3). Slide the adjustable Arm to the closest position to the wall/parapet that the locking pin will pass through (3). Insert the Locking Pin (2). Tighten the Adjusting Screw firmly (1). Tighten Lock Nut (5).

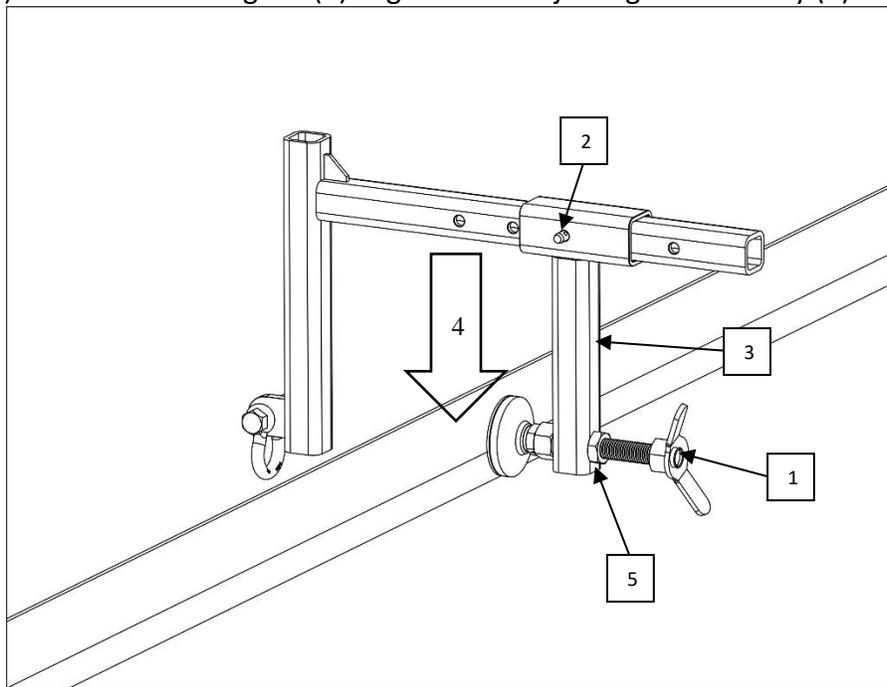


Figure 3 – Installing Parapet Anchor

The Parapet Anchor mounting must be flush to the top edge of the wall/parapet as shown. The anchorage must allow the Parapet Anchor to hang in a vertical orientation. Do not install the Parapet Anchor on an incline, upside down, or at an angle. (see fig. 4)

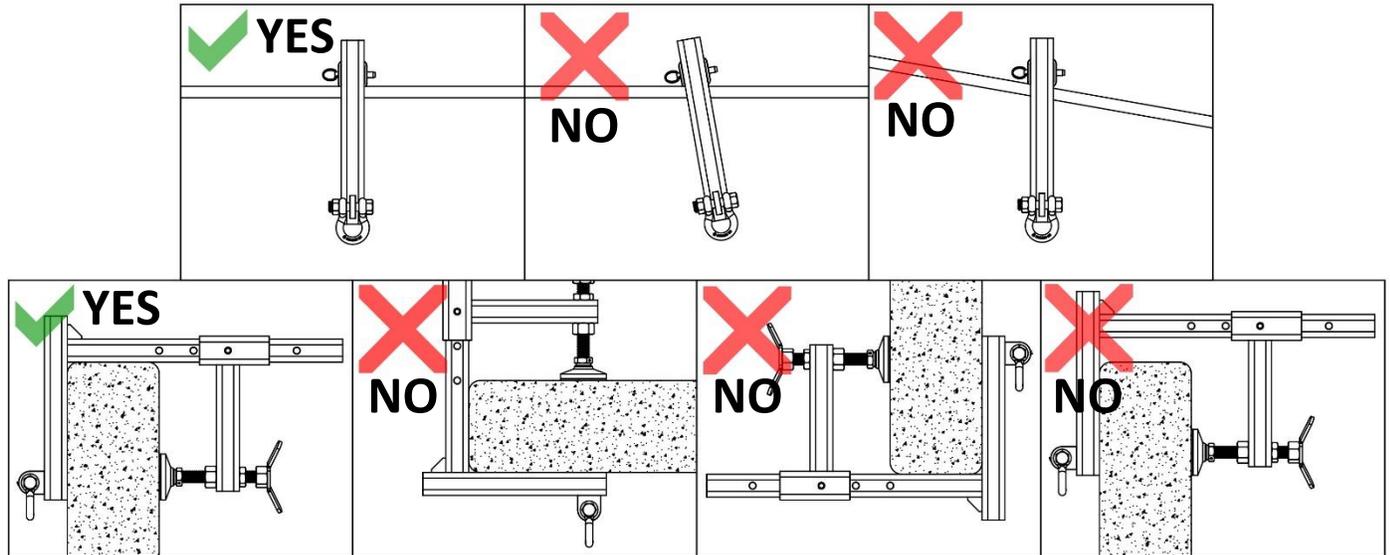


Figure 4 – Proper Orientation view of Parapet Anchor

## Training

It is the responsibility of the employer to train all workers prior to using this system (per OSHA 1926.503 (a)(1)). The employer shall provide a training program for each employee who might be exposed to fall hazards. The program shall enable each employee to recognize the hazards of falling and shall train each employee in the procedures to be followed in order to minimize these hazards.

The employer shall assure that, as necessary, each employee has been trained by a competent person qualified in the following areas:

- a. OSHA regulations governing the use of ladders and personal fall protection systems.
- b. Ability to recognize potential fall and workplace hazards.
- c. Method of inspection of safety equipment.
- d. Rescue procedures.
- e. Installation and removal techniques.



## Planning for Rescue

Prior to system use, a rescue plan must be prepared, the workers must be trained in its use, and the rescue equipment must be on hand to implement it in case of a fall.

Typical rescue plans include (but are not limited to) the following items:

1. List of equipment that must be readily accessible in the event of an emergency and the names of those workers certified to use or operate that equipment.
2. Emergency contact phone numbers (ambulance, hospital, fire department...) and a means to contact them (cell phone, emergency radio).
3. List of employees on the site, and the specific tasks they will perform to effect the rescue.

Only Qualified Persons trained in fall protection planning and implementation should undertake the design and installation of personal fall arrest systems. It is of the utmost importance to identify a method of rescue from deployed fall arrest systems before a fall has occurred, and have the means to affect the rescue on hand. In some situations it may be possible to use the fall arrest anchorage itself as an anchorage capable of use for rescue. However, in some situations, it is possible that access to the fallen individual will be blocked by other structure making it impossible to be used as a suitable anchorage for rescue. For this reason, always install rescue anchorages to rigid structures for attaching hoists or other retrieval equipment at locations that can be reached by rescue personnel. Note whether rescue must be up or down. If you rescue upward, anchorages must be high enough to raise the fallen worker above the walking/working surface. Individuals who will be using the Parapet Anchor must be trained in the rescue plan and have the equipment on hand to implement it in an emergency. In case a worker has been injured or is unconscious, always consider the evacuation method and path to be used after the worker has been retrieved.

Contact Reliance Engineering for help in identifying possible methods of rescue and rescue planning.

## Inspection

Prior to each use, the worker must inspect the Parapet Anchor for any physical damage, wear, corrosion, or malfunctioning parts. If an inspection reveals a problem or unsafe condition, remove the entire system from service until it can be re-certified by a competent person.

The Parapet Anchor should be examined to ensure that the Parapet Anchor is not bent and that it is installed properly onto anchorage. It must be secured into place as described in Installation (Pg. 8)



## Servicing

A qualified person trained in the inspection and servicing of system components must carry out servicing of this system. The company's safety officer should maintain a record log of all servicing and inspection dates. The system and all components must be withdrawn from service if subjected to fall arrest forces. Those components may be returned to service only after being re-certified by a qualified person. Only original Reliance equipment replacement parts are approved for use in this system. Contact Reliance Engineering with questions and when in need of assistance.

## Warnings and Limitations

Proper care should always be taken to visually scan the work area prior to use. Remove any obstruction, debris, and other materials from, and beneath the work area that could cause injuries or interfere with the operation of this system. Be cautious of swing fall hazards if working horizontally to the side of the Davit.

Users should be familiar with pertinent regulations governing the use of this system and its components. Only trained and competent personnel should install and supervise the use of this system.

Use only Reliance supplied or qualified compatible components.

**If you have any questions regarding the correct installation or use of this product DO NOT USE. Contact Reliance Engineering at Ph. (303) 424-8650 or Fax (303) 424-8670.**

# Inspection Log for the Parapet Anchor

Company: \_\_\_\_\_ Location: \_\_\_\_\_ Date: \_\_\_\_\_  
 Job Site: \_\_\_\_\_ Log No.: \_\_\_\_\_ System No.: \_\_\_\_\_

Describe non-conforming conditions in the boxes below:

Inspection Criteria	Missing Parts	Labels Readable	Corrosion	Deformed Parts	Cracked Parts	Excessive Loading
Fixed Arm						
Adjustable Arm		N/A				
Bow-Shackle		N/A				
Locking Pin		N/A				
Adjustment Screw		N/A				

Has a Rescue Plan been prepared? \_\_\_\_\_

Is Rescue Equipment on hand? \_\_\_\_\_

Have workers been trained in the Rescue Procedures and been given a copy of the Rescue Plan? \_\_\_\_\_

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