

# RTC® Single Use Roof Bracket™

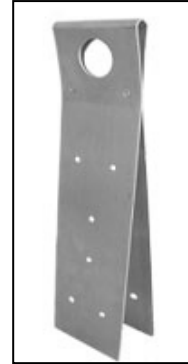
## Installation Operation and Maintenance Instructions

Instruction: INST-559

Effective: 10/2005

Expiration: 10/2015

The RTC Roof Bracket can serve as a temporary anchor point on roofs of wood frame structures. It can be used for both fall arrest and fall restraint. Whatever the application, they must be used as part of a complete RTC fall protection systems that includes an RTC full body harness.



### WARNINGS

#### Under Penalty of Law:

These instructions are not to be removed except by the user of this equipment. Current instructions must always be available to any potential user. Note: Because of continuous developments in the application and use of RTC equipment and our desire to serve your best interests, these instructions are invalid 10 years after the effective date on these instructions. If you purchase a product, and these instructions are out of date, call RTC Customer Service and request current instructions. Dial toll free (800) 323-7402 (U.S. and Canada) or (847) 358-2000.

If you have difficulty or experience any problem with RTC equipment or the instructions, call the above toll-free number or (847) 358-2000 immediately and ask the Customer Service department for assistance.

Use this equipment as a part of a complete fall protection system. Inspect and maintain regularly.

You must read and fully understand or have the following instructions explained to you before using this equipment. Failure to do so could result in serious or fatal injury.

Atencion: Si usted no puede leer el ingles o si usted no comprende estas instrucciones, favor de consultar su director de seguridad o su supervisor.

Attention: Si vous ne pouvez pas lire l'anglais ou si vous ne comprenez pas les instructions, consultez votre directeur de securite ou votre superviseur.

Achtung: Wenn Sie nicht Englisch lesen können und diese Anweisungen nicht verstehen, dann fragen Sie bitte Ihren Sicherheitsdirektor oder Ihren Aufseher.

Attenzione: Se non legghiere l'inglese o non capite queste istruzioni, per favore rivolgete Vi al Vostro Direttore, responsabile della "Sicurezza sul Lavoro" o al Vostro diretto superiore.

You assume complete liability if you fail to follow these instructions and are injured. Use this equipment only as instructed.

Warning: All RTC equipment should be used as part of a complete RTC fall protection or emergency rescue system. If the buyer or user chooses to disregard this warning, he is solely responsible for the safety of the entire system and all users.

Before replacing or adding components to a fall protection or emergency escape system, consult the original manufacturer. Federal OSHA states that any unauthorized substitution or change to a system by the buyer should be fully evaluated or tested by a qualified person before the new system is put into use (see OSHA 1926.500).

All potential users of this equipment and user's management must read and understand all instructions fully; failure to do so could result in serious or fatal injury.

No fall arrest system can guarantee that you will not sustain injuries if a fall occurs. The most you can expect is that injuries will be substantially reduced. Improper use of this equipment will vastly increase your chances of serious injury or death because misuse builds false security. To achieve the maximum level of safety that this equipment is capable of providing, all instructions must be followed diligently. This means careful planning of your application and work method.



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### Complete System Components

A complete fall protection system consists of the following components that are arranged to fit the specific work task and control the elevated fall hazard(s):

- Anchorage

An anchorage is a secure means of attachment to which the personal fall arrest system is connected. (ANSI Z359.1)

- Body Support

A body support is the component of a personal fall protection system that is worn on or around the body. Full body harnesses must be used for all fall arrest systems.

- Connecting Means

A connecting means is the link between the body support and anchorage. It can be a shock-absorbing lanyard, rope grab, self-retracting lanyard or retrieval system. Connecting means will vary depending on the application.

The user must also have a rescue plan and the means at hand to implement it in the event of a fall.

Note: For continuous protection, more than one system may be needed.

### **WARNING!**

**No other applications or methods of use are allowed without prior written approval. Failure to comply with these guidelines may result in serious injury or death.**

### 1.0 Application

- 1.1 The RTC Roof Bracket can serve as a temporary anchor point on roofs of wood frame structures. They can be used for both fall arrest and fall restraint. Whatever the application, they must be used as part of a complete RTC fall protection systems that includes an RTC full body harness. The anchorage structure must meet the requirements of section 1.2.
- 1.2 Anchorage Strength: All anchorage structures must be capable of supporting a minimum of 3,600 lb. when certification exists, or 5,000 lb. in the absence of certification. (See ANSI Z359.1 for definition of certification.) When more than one personal fall arrest system is attached to an anchorage, the anchorage's strengths above shall be multiplied by the number of personal fall arrest systems attached to the anchorage. This requirement is consistent with OSHA requirements which read, "Anchorages used for attachment of personal fall arrest systems shall be independent of any anchorage being used to support or suspend platforms and capable of supporting at least 5,000 lb. per user attached, or be designed, installed and used as part of a complete personal fall arrest system which maintains a safety factor of at least two and is supervised by a qualified person."

### **WARNING!**

**Do not use with a body belt or chest harness. The Roof Bracket must be used with an RTC Full Body Harness.**

### 2.0 Performance Data and Material Specification

- 2.1 Designed working load 5,000 lb. Do not use for material handling.
- 2.2 Capacity: One person weighing 310 lb or less including tools. Only one fall protection system may be attached to the roof bracket.
- 2.3 Free fall: Free fall must not exceed 6 ft.
- 2.4 Use only approved fall protection equipment.
- 2.5 Materials of Construction: plain carbon steel
- 2.6 Dimensions: 3" Wide X 11.75" Tall
- 2.7 The Roof Bracket meets OSHA 1910.66, 1926.500, ANSI A10.14 and Z359.1 standards.



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### 3.0 Installation

3.1 Anchorage Structure: Confirm that the anchorage structure meets strength requirements listed in section 1.0.

3.2 Inspect Roof Bracket as instructed in the inspection section. Do not expose yourself to a fall hazard during attachment or detachment. Another fall protection system may be needed. Never attach the Roof Bracket in any other manner.

3.3 Before beginning work on any roof, develop a plan that clearly explains where, when and how workers should install the roof brackets.

3.3.1 Install roof brackets at the roof peak at 8 ft intervals.

3.3.2 Install roof brackets at the roof peak and at least 6 ft from any exposed roof edge, in combination with one additional bracket mounted on the flat of the roof, 10 ft from roof's edge.

3.3.3 Attach roof brackets only to a roof rafter

3.3.4 Do not install roof brackets on fascia boards, eaves or gable overhangs.

3.3.5 Install several roof brackets on the down slope of low pitched roofs to reduce swing fall hazard.

3.4 Ensure that structural members are in good condition before attaching roof brackets. They must be reasonably free of splits, cracks, knots, decay or other defects.

3.5 To install the roof bracket:

3.5.1 Adjust arms of roof bracket to conform to roof angle

3.5.2 Position the roof bracket so the eight center nail holes rest over a roof joist; 2x6 minimum.

3.5.3 Ensure that bracket rests flat, or nearly flat, against the roof surface.

3.5.4 Insert all 12 nails provided; use only nails provided by RTC. At least 8 nails must be nailed into the joist. Do not use nails from a nail gun.

3.6 Position personal fall arrest systems used with roof brackets so that any free fall would be limited to a maximum of 6 ft with a clearance distance of at least 9-½ ft.

3.7 Check for obstructions below the work area to ensure that the potential fall path is clear.

3.8 Ensure that you have stable and compatible connections by using only hooks and connectors that close completely over the object to which they are being attached. Use only locking snap hooks to help avoid rollout. Rollout is the sudden and accidental disconnection of snap hooks from their attachments.

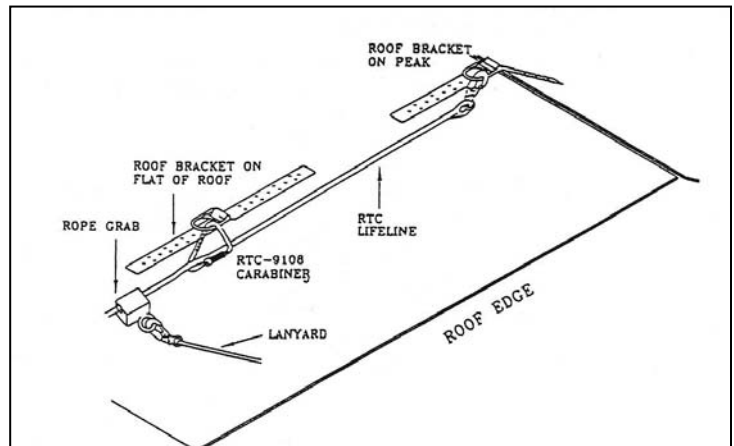
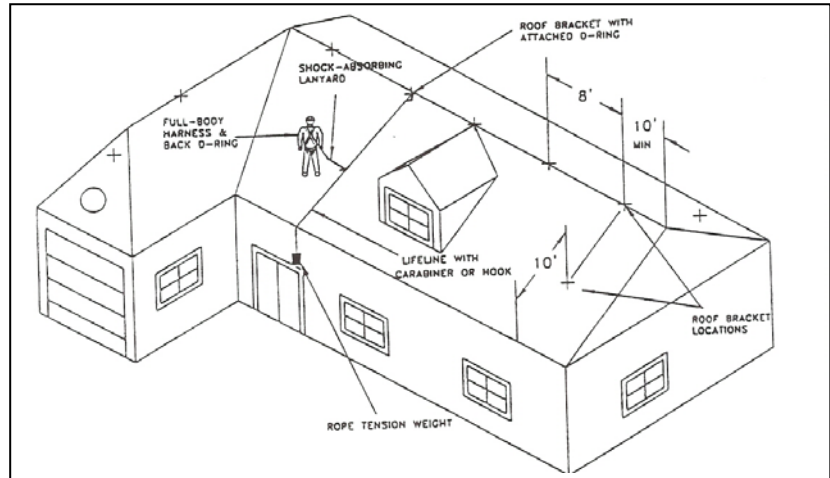
3.9 Avoid installing the roof brackets where the system components, such as the rope, lanyard and full body harness, will come in contact with sharp edges.

3.10 Read and follow all instructions provided with the fall protection components of the system, such as the harness, lanyard, rope grab and lifeline.

3.11 To remove the roof bracket pry it off and discard it.

3.12 Clearance: Determine the necessary clearance needed below the walking or working surface and confirm that adequate clear space is available. Read instructions provided with the fall protection deceleration device you will be using for clearance information

3.13 Compatible Connectors:



### WARNING!

**Do not attach more than one carabiner to the roof bracket.**



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### 4.0 Operation Instructions

- 4.1 You must follow these instructions carefully to allow this system to provide you with needed fall protection during the job. If you have any concerns regarding the condition of the system or experience any problems, notify your supervisor or the safety department immediately. Never take any chances.
- 4.2 Visually inspect the Roof Bracket, deceleration device (lanyard or self-retracting lanyard), harness, and the anchor point (refer to the inspection section of this instruction for details). Check the inspection log before each use. If the log does not show that a formal inspection has been performed within the last 6 months, remove the Roof Bracket from use and mark it "DO NOT USE" until a formal inspection is done by a qualified person.
- 4.3 Adjust your harness to fit very snugly (refer to RTC instruction #569 for details). A proper, snug and secure fit can help reduce the chances of falling out of your harness.
- 4.4 Attach the carabiner on the vertical lifeline or self-retracting lifeline directly to the roof bracket.
- 4.5 Attach the deceleration device (lanyard on rope grab or self retracting lanyard) to your back harness D-ring using the RTC locking snap hook or carabiner. The snap hook must be attached to the back D-ring that is located between the shoulder blades. Do not use any other D-ring. Attach while at ground or grade level before you are exposed to a fall hazard. Make sure the snap hook closes and locks completely. Any harness used must be in good condition and meet federal OSHA requirements. Check with your supervisor or the safety department if you are not sure. No other linkage or method of attachment is allowed.
- 4.6 After you are connected, work normally with smooth movements. Do not jump across floor openings or fall hazards.
- 4.7 The roof bracket is intended for one time use only. After removing from the roof, dispose of the roof bracket.
- 4.8 Never connect the Roof Bracket to more than one person. The Roof Bracket is a one-person device.
- 4.9 Never go 30 degrees beyond the center of the anchor point to avoid large swing falls.
- 4.10 Keep bracket 6 ft away from roof's edge.
- 4.11 Keep rope taut and hanging over roof's edge at all times. Use a rope weight to keep rope taut.
- 4.12 Do not connect horizontal lines between individual roof brackets.
- 4.13 **Important:** If you fall, immediately report what happened to your supervisor or the safety department. Remove the fall protection system from service. The roof bracket must be replaced. A qualified person must check the entire system including the anchorage structure to make sure it will provide the proper protection for the next person who might fall. Do not delay; it could be you.

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### 5.0 Inspection

The user must inspect all equipment visually before each use. We suggest a formal inspection at least every 6 months by a competent person other than the user. We list this time interval because it is the most stringent of all the national consensus standards for fall protection:

- *ANSI A10.14, American National Standard for Constructions and Demolition Operations - Requirements For Safety Belts, Harnesses, Lanyards and Lifelines for Construction And Demolition Use* requires a formal inspection by a competent person every six months.
- *ANSI Z359.1* requires inspection by a competent person once every month for self-retracting lanyards, once a year for all other equipment.
- *OSHA 1910.66 and 1926.500* requires no formal inspection period; only inspection by the user before each use.

Because ANSI A10.14 and Z359.1 are national consensus standards, and compliance is not required by law, your company has the discretion to determine if the standards are applicable to your workplace. Equipment used in harsh environments requires more frequent formal inspection.

**Corrective Action:** If damage is found as described below, remove the item from service immediately and replace it. If any damage or questionable conditions are apparent that are not described below, remove the item from service, mark "DO NOT USE", replace it and call RTC Customer Service for advice. Failure to remove damaged or questionable equipment could lead to serious or fatal injury.

- 5.1 A detailed record of inspection dates must be maintained. An inspection chart is provided at the end of these instructions for your convenience.
- 5.2 **Anchor Point and Attachment:** Make sure the attachment to the anchor point is secure. The structure to which the Roof Bracket is attached must be checked. Make sure it is secure and free from distortion, cracks or other visible signs of damage.
- 5.3 **Roof Bracket:** The Roof Bracket should be examined for cracks, dents, distortion, corrosion, abrasion, rough or sharp edges or other visible signs of damage. Fasteners should be secure.
- 5.4 **Nails:** Ensure that the nails are securely attached to the roof and that they have complete heads. Nails should not be bent or corroded.
- 5.5 Inspect the roof and the area to which the bracket is or will be attached to ensure that it will not be connected to rotted or deteriorated wood.



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- 5.6 Labels: Labels must be secure and legible. See illustration.
- 5.7 Additional Equipment: Inspect all fall protection equipment used with the system as directed in the instructions for each piece of equipment.
- 5.8 If a fall occurs, a qualified engineer should inspect and determine if the anchorage structure has been structurally weakened. The roof bracket and all other equipment must be removed from service and destroyed.
- 5.9 Never adjust, repair, or substitute any parts of a RTC system.



### 6.0 Maintenance

- 6.1 Personal protection equipment should be maintained regularly to help make sure that the equipment will operate properly when needed. Failure to maintain and store equipment carefully can result in poor operation that could lead to serious or fatal injury.
- 6.2 Frequency: All equipment should be part of a periodic maintenance program that includes detailed records of inspection and maintenance. An inspection every 6 months is suggested or more frequently if the equipment is heavily used.
- 6.3 Repairs: Never make any adjustments or repairs to or substitute any parts of the RTC system. Call RTC Customer Service for advice.
- 6.4 Cleaning: The Roof Bracket can be wiped down with a clean cloth to remove any dust or dirt.
- 6.5 Reconditioning and Repair: There are no user serviceable parts in the Roof Bracket. All repairs must be made by RTC.
- 6.6 Call RTC Customer Service before returning a Roof Bracket to RTC for inspection or repair.

### 7.0 Training Guidelines

All training must be conducted under careful and competent supervision. Live hands-on training for all users is essential to help understand the capabilities and limitations of their personal protective equipment. Training also helps promote confidence and should be conducted as an initial introduction, as well as periodically for review and additional practice. Also, this instruction booklet should be stored where users can easily review it whenever necessary. Training should be site specific.

### 8.0 Warnings

- 8.1 Failure to observe the warnings below, follow all instructions in this booklet, or seek qualified assistance when needed can lead to serious or fatal injury.
- 8.2 Never substitute parts of the RTC Roof Bracket.
- 8.3 Do not use this equipment in violation of any applicable company, state, or federal standard or requirement.
- 8.4 All users must be in good mental and physical health and not under the influence of drugs or alcohol.
- 8.5 Anyone who has a history of back or neck problems that could be aggravated or complicated by using fall protection equipment should not do so. Pregnant women and minors should not use this equipment. If there is any reason why you may not be physically able to safely absorb the forces subjected in the event of a fall arrest, consult your doctor.
- 8.6 Never attempt to make any repairs, alterations, or adjustments to RTC equipment. All problems or concerns must be reported to RTC Customer Service.
- 8.7 Use caution when working near electrical hazards.
- 8.8 In salt and other corrosive environments more frequent inspection and or replacement. Consult RTC for advice on exposure to any chemical or environment that may cause corrosion.
- 8.9 Do not use the RTC Roof Bracket for load arresting applications.
- 8.10 Use caution when working around moving machinery.
- 8.11 Do not use near sharp edges or abrasive surfaces.

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8.12 Swing Fall Hazard: Do not use where a swing fall hazard may occur. Always check for obstructions below your working area to make sure your potential fall path is clear. Work directly under the anchorage point at all times. Swing falls can be controlled in at least two ways. First, an engineered fall protection system can be used to help maintain the attachment point overhead, thereby allowing the fall arrest to occur in a vertical plane. Second, the height of the anchor point can be raised, thereby reducing the angle of the arc and force of the swing. Important: Carefully review the mobility needed to complete the required work task, including travel to and from the workstation. For continuous and complete fall protection, more than one RTC system may be required.

8.13 Never attach a material load to the Roof Bracket device for material handling use.

8.14 Never test the Roof Bracket with a dynamic drop test. After a fall has been arrested the entire system must be removed from service. A qualified person must check the entire system to make sure it will provide the proper protection. After a fall has been arrested the roof bracket must be removed from service and destroyed.

### 9.0 Questions

If you have any question or need additional explanation or clarification about the use of any RTC equipment, call RTC customer service toll-free 800-323-7402 (U.S. and Canada) or 847-358-2000 in Illinois or outside the Continental United States.

### Inspection Records:

Model Number													
Serial Number													
Inspection Date													
Inspector													
Bracket													
Nails													
Rivets													
Labels													
Anchorage Structure													
Attached equipment													
Disposition													



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