

# 4000 Reusable Roof Anchor User Instructions



## General Safety Information

These *User Instructions* are not to be removed except by the user of this equipment. *User Instructions* must always be available to the user.

### WARNING

Compliant fall protection and emergency rescue systems help prevent serious injury during fall arrest. Users must read and understand the *User Instructions* provided with the product and be properly trained by their employer prior to use per OSHA 29 CFR 1910.66 and 1926.503 or applicable local standards. **Misuse or failure to follow warnings and instructions may result in serious personal injury or death.** For proper use, see supervisor, *User Instructions*, or call Technical Service at 800-243-4630.

## Purpose

3M 4000 Reusable Roof Anchors are designed to be used as part of a personal fall arrest system, to help limit the fall arrest forces in the event of a fall.

## Use Instructions

1. Failure to follow all instructions and limitations on the use of 4000 Reusable Roof Anchors may result in serious personal injury or death.
2. Before using a personal fall arrest system, employees must be trained in accordance with the requirements of OSHA 29 CFR 1910.66 in the safe use of the system and its components.
3. Personal fall arrest systems, including 4000 Reusable Roof Anchors, must be inspected prior to each use for wear, damage, and other deterioration and defective components must be immediately removed from service, in accordance with the requirements of OSHA 29 CFR 1910.66 and 1926.502.
4. The complete fall protection system must be planned (including all components, calculating fall clearance, and swing fall) before using.
5. Users must have a rescue plan, and the means at hand to implement it, that provides the prompt rescue of employees in the event of a fall or assures that employees are able to rescue themselves.
6. Store 4000 Reusable Roof Anchors in a cool, dry, clean environment, out of direct sunlight, when not in use.
7. After a fall occurs, the Reusable Roof Anchor must be removed from service immediately and must not be used again until inspected and determined by an OSHA defined “competent person” to be undamaged and suitable for reuse.

## Use Limitations

1. 4000 Reusable Roof Anchors are designed for a single user, unless used as part of the 3M Mobile SkyWalk, 3M SafeReach, or 3M SideWalk pre-engineered flexible horizontal lifeline system.
2. 4000 Reusable Roof Anchors must only be used on

structures capable of supporting static loads applied in all directions permitted by the fall arrest system of at least: 3,600 lb (16.0 kN) with certification of a qualified person, or 5,000 lb (22.2 kN) without certification.

3. 4000 Reusable Roof Anchors are designed to be used in temperatures ranging from -40°F to +130°F (-40°C to +54°C).
4. Do not expose 4000 Reusable Roof Anchors to chemicals or harsh solutions which may have a harmful effect. Contact 3M Technical Service with any questions.
5. Caution must be taken when using 4000 Reusable Roof Anchors near moving machinery, electrical hazards, sharp edges, or abrasive surfaces, as contact may cause equipment failure, personal injury, or death.
6. Minors, pregnant women and anyone with a history of either back or neck problems should not use this equipment.
7. Do not use or install equipment without proper training from a “competent person” as defined by OSHA 29 CFR 1926.32(f).
8. Only 3M, or persons or entities authorized in writing by 3M, shall make repairs or alterations to the equipment.

## Compatibility Limitations

4000 Reusable Roof Anchors must only be coupled to compatible connectors. OSHA 29 CFR 1926.502 prohibits snaphooks from being engaged to certain objects unless two requirements are met: it must be a locking type snaphook, and it must be “designed for” making such a connection. “Designed for” means that the manufacturer of the snaphook specifically designed the snaphook to be used to connect to the equipment in question. The following connections must be avoided, as they are conditions that can result in rollout\* when a nonlocking snaphook is used:

- Direct connection of a snaphook to horizontal lifeline.
- Two (or more) snaphooks connected to one D-ring.
- Two snaphooks connected to each other.
- A snaphook connected back on its integral lanyard.
- A snaphook connected to a webbing loop or webbing lanyard.
- Improper dimensions of the D-ring, rebar, or other connection point in relation to the snaphook dimensions that would allow the snaphook keeper to be depressed by a turning motion of the snaphook.

\***Rollout:** A process by which a snaphook or carabiner unintentionally disengages from another connector or object to which it is coupled. (ANSI Z359.1-2007)

## Performance

3M 4000 Reusable Roof Anchors have a minimum tensile breaking strength of 5,000 lb (22.2 kN) when statically tested in accordance with the requirements of the ANSI Z359.1-07 standard.

Part Number 3M ID	Material	Length	Width	Connection Opening	Weight	Compliance Standards
4000 70071532256	½" Plate Steel	20⅞ in (530 mm)	3 in (76 mm)	2¼ in (57 mm)	2.5 lb (1.3 kg)	ANSI Z359.1-07



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## Installation

4000 Reusable Roof Anchors must be installed at the roof peak and located a minimum of 5' inward from leading edge. Additional 4000 Reusable Roof Anchors may be installed along roof peak as needed. Each 4000 Reusable Roof Anchor must be fastened to the roof structure using a minimum of 10 #8x2" screws, or 16d 3" double head nails, in the center row of holes securing the 4000 Reusable Roof Anchor to the roof rafter. Remaining outer holes must be secured to the plywood sheathing. Use all holes provided when securing the 4000 Reusable Roof Anchors to the structure. For installation onto structures other than new, inspect rafter from inside the attic area to ensure that the wood is structurally sound and free from rot and/or other signs of deterioration.

When installed as an anchor point on a flat surface, on one side of a peaked roof, the connecting fall arrest subsystem must not extend over the peak of the roof to the other side. For work on the opposing roof surface an additional 4000 Reusable Roof Anchor is required to be installed on that side.

4000 Reusable Roof Anchors used in a horizontal lifeline must be installed in such a way that the horizontal lifeline sag does not pass over the leading edge during a fall arrest. See *User Instructions* for the 3M Mobile SkyWalk, 3M SafeReach, or 3M SideWalk for lifeline sag information.

For steel roof or metal decking applications, surface material must be 24 gauge or thicker. 4000 Reusable Roof Anchors must be installed with a minimum of 10 #8x¾" long sheet metal screws per side, in the outer rows, on raised ribs of roof panel. Anchor must be positioned to apply load in the long axis of the anchor bracket.

After removal of the 4000 Reusable Roof Anchor, surface may require repairs. It is the responsibility of the installer to make applicable repairs to the roof materials.

## Inspection

All 4000 Reusable Roof Anchors must be inspected prior to

### 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. Equipment offered by 3M is warranted against factory defects in workmanship and materials for a period of one year from date of installation or first use by the original owner.

**LIMITED REMEDY:** Upon notice in writing, 3M will repair or replace all defective items at 3M's sole discretion. 3M reserves the right to require that the defective item be returned to its plant for inspection before determining the appropriate course of action. Warranty does not cover equipment damage resulting from wear, abuse, damage in transit, failure to maintain the product or other damage beyond the control of 3M. 3M shall be the sole judge of product condition and warranty options. This warranty applies only to original purchaser and is the only warranty applicable to this product. Please contact 3M technical service department at 800-243-4630 for assistance.

**LIMITATION OF LIABILITY:** IN NO EVENT WILL 3M BE 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.

### 3M Occupational Health & Environmental Safety Division

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Technical Assistance: 800-243-4630 in U.S.  
and 800-267-4414 in Canada  
[www.3M.com/FallProtection](http://www.3M.com/FallProtection)  
[www.3M.com/PPESafety](http://www.3M.com/PPESafety)



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each use, and additionally, by an OSHA defined "competent person," other than the user, annually.

**Any equipment that has been subjected to the forces of arresting a fall must be removed from service immediately and must not be used again until inspected and determined by an OSHA defined "competent person" to be undamaged and suitable for reuse.**

**If inspection reveals any defect, inadequate maintenance, or unsafe condition, remove from service.**

All 4000 Reusable Roof Anchors must be free of cracks, sharp edges, deformation, corrosion, chemical attack, alteration, excessive heating or wear.

All markings must be legible and attached to the product.

**Note: Only manufacturer, or entities authorized in writing by the manufacturer, may make repairs to the product.**

## Cleaning and Maintenance

No cleaning or maintenance is required for this product.

