

# 4651X Disposable 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 1-800-560-1094.

## Purpose

The 3M Disposable 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 Disposable Roof Anchors may result in serious personal injury or death.
2. Before using a personal fall arrest system, employees shall 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 Disposable Roof Anchors, shall 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. Personal fall arrest system MUST limit the maximum arrest force to 900 lbs. or less.
5. The complete fall protection system must be planned (including all components, calculating fall clearance, and swing fall) before using.
6. 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.
7. Store Disposable Roof Anchors in a cool, dry, clean environment, out of direct sunlight, when not in use.
8. After a fall occurs, the Disposable Roof Anchors must be removed from service and destroyed immediately.

## Use Limitations

1. Disposable Roof Anchors are designed for single users only.
2. Do not use with any personal fall arrest system that exceeds a 900 lb. maximum arresting force.
3. Disposable Roof Anchors are designed to be installed at the peak of the roof only. Do not install on a flat surface.

4. Disposable 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 lbs. (16.0 kN) with certification of a qualified person, or 5,000 lbs. (22.2 kN) without certification.
5. Disposable Roof Anchors are designed to be used in temperatures ranging from -40°F to +130°F (-40°C to +54°C).
6. Do not expose Disposable Roof Anchors to chemicals or harsh solutions which may have a harmful effect. Contact 3M Technical Service with any questions.
7. Do not move, or reuse the Disposable Roof Anchor.
8. Caution must be taken when using Disposable Roof Anchors near moving machinery, electrical hazards, sharp edges, or abrasive surfaces, as contact may cause equipment failure, personal injury, or death.
9. Minors, pregnant women and anyone with a history of either back or neck problems should not use this equipment.
10. Do not use or install equipment without proper training from a “competent person”, as defined by OSHA 29 CFR 1926.32(f).
11. Only 3M, or persons or entities authorized in writing by 3M, shall make repairs or alterations to the equipment.

## Compatibility Limitations

All 3M Disposable 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.

## Performance

3M Disposable Roof Anchors are designed as part of a personal fall arrest system that limits the maximum arrest force to 900 lbs. or less, to maintain a safety factor of two as required by OSHA 29 CFR 1926.502(d)(15).

**Minimum breaking strength 1,800 lbs.**

Part Number	Material	Length	Width	Connection Opening	Weight	Regulation
4651X	16GA 1010 Carbon Steel	12.5 in. (31.8cm)	1.75 in. (44mm)	0.8 in. (20mm)	1 lb. (254g)	OSHA 1910.66 OSHA 1926.502



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## Installation/Removal

Remove ridge vents before installing Disposable Roof Anchors, as they must be installed at the roof peak and located a minimum of 5 ft. inward from leading edge. Additional Disposable Roof Anchors may be installed along roof peak as required with spacing intervals no greater than 10 ft. between anchors.

Bend each anchor as shown in Fig. 1 until both of the connection point holes line up together (Fig. 2).

Each Disposable Roof Anchor should be fastened to the roof rafter using a minimum of 6 each 3" minimum length 16 penny nails. Use all holes provided when securing the Disposable 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.

Remove or hammer the Disposable Roof Anchor flat when finished. Do not reuse the Disposable Roof Anchor.

## Inspection

All Disposable Roof Anchors must be inspected prior to 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.**

All Disposable 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.

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

**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. If inspection reveals any defect, remove from service and destroy.

Product Label

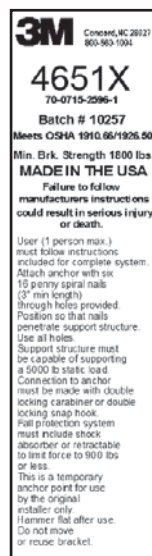
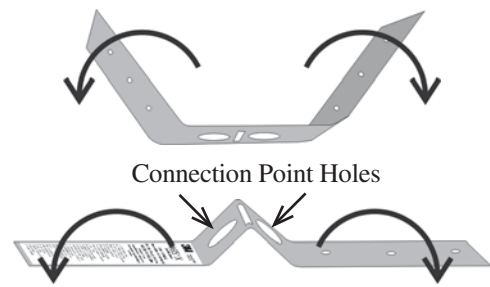
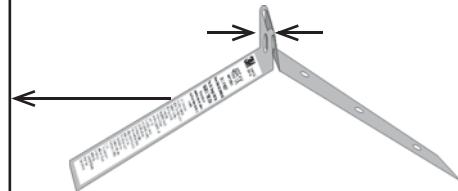


Fig. 1



Connection Point Holes

Fig. 2



## 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 promptly repair or replace all defective items. 3M reserves the right to elect to have defective item returned to its plant for inspection before making a repair or replacement. Warranty does not cover equipment damage resulting from wear, abuse, damage in transit, 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 our products. A *Return Goods Authorization Number (RGA)* must be issued by 3M on all returns for warranty consideration. All returns must be shipped to 3M freight prepaid. Please contact 3M customer service department at 1-800-560-1094 for warranty 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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