



## Reusable Temporary Roof Anchors



Conforms to CSA Z259.15 Class A  
and ANSI Z359.12

The N5072F roof anchor consist of a forged D-ring integrally connected to two steel plates.

These anchors are designed to be used only with CSA or ANSI compliant fall protection equipment (for example, energy absorbing lanyard, fall protection harness, etc.).

# WARNING

All persons using this equipment must read and understand all instructions. Failure to read and understand all instructions for the use of this equipment may result in serious injury or death. Do not use this equipment unless properly trained.

- All users must read and understand all warnings and instructions prior to use
- Only trained and competent personnel are to use this equipment
- Ensure all pieces of equipment are compatible with each other. Failure to adhere to system compatibility requirements may result in accidental disengagement, which could result in injury or death
- All fall protection equipment must be inspected before each use
- A competent person, as determined by OSHA, must inspect all equipment at least annually
- All equipment that has been subjected to a fall incident must be removed from service immediately
- Do not alter any equipment. Repairs can only be performed by the manufacturer or authorized personnel
- The roof anchor must be installed according to these instructions using the appropriate fasteners
- The user must connect to the D-ring using only approved connecting devices
- Only intended for single attachment

## Corrosion

If the roof anchor is used in an environment such that the roof anchors may be exposed to a corrosive environment (i.e., near salt water); the roof anchor must be inspected more frequently.

## Roof Structure

This anchorage connector is intended to be installed on wood framed structures capable of withstanding a minimum of 5000 lbs (22kN) of loading, or a minimum of 2 times the maximum arresting force as calculated and approved by an engineer competent in fall arrest.

## Installation

The N5072F roof anchor must be installed at the peak of the roof and located a minimum of 5ft inward from the leading edge, ensuring that the anchor is also placed as far as possible from any exposed hazards.

Ensure the roof anchors are adequately spaced so that the roof anchor minimizes any swing falls.

The roof anchor must be secured directly into a truss. NEVER install the roof anchor into sheathing alone.

To install the roof anchor, spread the steel plates apart and lay it over the peak of the roof.

The N5072F must be fastened to the roof using a minimum of 10 (ten) #8x2" screws, or 16d 3" double head nails, in the center row of holes securing the N5072F to the roof rafter. The remaining outer holes are to be secured to the plywood sheathing using 22 (twenty-two) #8x2" screws.

Ensure that all 32 screw holes (16 per side) are used.

When installed as an anchor point on a flat surface, the connecting fall arrest sub-system must not extend over the roof to the other side.

When installed on steel roof or metal decking application, surface material must be 24 gauge or thicker. N5072F anchors must be installed with a minimum of 10 #8x3/4" 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.

The N5072F 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.

After the removal of the N5072F the surface may require repairs and is the responsibility of the installer to make applicable repairs to the roof materials.

## Inspection of installation

Ensure that the roof anchor is firmly attached to the roof structure. Firmly pull on the roof anchor to ensure that the roof does not move. Inspect the roof structure to ensure it has the adequate strength to support 5000 lbs. (22kN) force. If there is any doubt to the integrity of the roof structure, remove the roof anchor and relocate to an adequate location.

## Rescue Plan

All workers using any fall arrest systems must have a rescue plan prior to using these systems. Please consult a trained and competent person to evaluate and write a specific rescue plan for each application.

## Inspection of Roof Anchor

Inspecting the roof anchor must be done before each use and at least annually by a competent person. Look for signs of cracks, dents, corrosion, or deformities in the roof anchor. Ensure each leg is flat and not bent due to excessive force.

If inspection reveals a defective condition, immediately remove it from service and destroy, or contact a factory authorized service center for repair.

## MAINTENANCE, SERVICE, AND STORAGE

The N5072F must be inspected prior to each use and annually by a defined “competent person”.

Any equipment that has been subjected to fall arresting forces must be removed from service immediately and must not be used again.

The N5072F roof anchor must be free of cracks, sharp edges, deformation, corrosion, chemical attack, alteration, excessive heating, or wear.

Store this roof anchor in a cool, dry, clean environment, out of direct sunlight, when not in use.

## Usege Instructions

- N5072F anchors are designed for a single user only.
- N5072F must only be used on structures capable of supporting static loads applied in all directions permitted by the fall arrest system of at least: 3600lbs (16.0kN) with certification of a qualified person, or 5000lbs (22.2kN) without certification.
- Designed to be used between the temperatures of -40°F to +130°F (-40°C to +54°C).
- Do not expose the N5072F to chemicals or harsh solutions which may have a harmful effect.
- Caution must be taken when using the N5072F near moving machinery, electrical hazards, sharp edges, or abrasive surfaces, as contact may cause equipment failure, personal injury, or death.

## Compatibility Limitations

N5072F Anchors must only be coupled to compatible connectors. OSHA 29 CFR 1926.502 prohibits snap hooks from being engaged to certain objects unless two requirements are met: it must be a locking type snap hook, and it must be “designed for” making such a connection. “Designed for” means that the manufacturer of the snap hook specifically designed it to be used to connect to the equipment in question.

## Performance

N5072F Roof Anchors have a minimum tensile breaking strength of 5000lbs (22.2 kN) when statically tested in accordance with the requirements of the ANSI Z359.1 standard.

## Build

Material	Length	Width	Connection Opening	Weight	Compliance Standards
1/8" Plate Steel	20 7/8" (530mm)	3" (76mm)	2 1/4" (57mm)	2.5lb (1.3kg)	ANSIZ359.1-07

## CALCULATING TOTAL FALL CLEARANCE REQUIRED

Fall Clearance is the distance required to safely arrest the users fall. It is the distance from the anchorage to the ground.

Steps for calculating fall clearance (CL).

1. Calculate free fall (FF).
2. Determine how much the connecting device deploys (DL).
3. Determine the stretch of the harness (HS).
4. Add a safety factor which is typically 3 feet (SF).
5. Add all the numbers together.

$$CL = FF + DL + HS + SF$$

