

# SUPER ANCHOR<sup>®</sup>

## SUPER - Z FALL ARREST PURLIN ANCHOR FITS ALL STEEL Z-PURLIN SIZES 8" x 2-1/2" THROUGH 9-1/2" x 2-3/4"

14 Ga SST  
PART# 1016  
US PATENT NO. 5,370,202

### INSTRUCTION/SPECIFICATION MANUAL

#### TRAINING AND INSTRUCTION REQUIREMENTS:

ANYONE WHO USES SAFETY EQUIPMENT MUST FIRST RECEIVE TRAINING AND INSTRUCTION THAT MEETS THE REQUIREMENTS OF FEDERAL OSHA 1926.503 AND COMPLIES WITH THE INFORMATION CONTAINED IN THIS MANUAL.

#### USER COMPLIANCE

THE SUPER - Z PURLIN ANCHOR IS DESIGNED TO BE USED AS A SINGLE PERSON ANCHORAGE POINT FOR "FALL ARREST" AND "FALL RESTRAINT" METHODS OF FALL PROTECTION AND MEETS THE REQUIREMENTS OF FED. OSHA 1926. 502(D)(15) OF SUBPART M. THE USER MUST ENSURE COMPONENT COMPATIBILITY WITH A FULL BODY HARNESS, SHOCK ABSORBING LANYARD, LIFELINE, ROPE GRAB DEVICE, AND CONNECTING HARDWARE.

#### FACTORY ENSURED "COMPONENT COMPATIBILITY"

WHEN USING A COMPLETE FALL PROTECTION SYSTEM SUPPLIED BY SUPER ANCHOR SAFETY, SUCH AS THE "TOTAL PACKAGE" OR "FALL ARRESTOR" LIFELINE/ROPE GRAB SYSTEM, COMPONENT COMPATIBILITY IS ENSURED WITH THE SUPER - Z PURLIN ANCHOR. FACTORY SUPPLIED INSTRUCTIONS MUST BE FOLLOWED.

#### STRUCTURAL REQUIREMENT:

Purlins must be attached to supporting members before using Purlin anchor for fall protection, and be capable of withstanding a 5,000 lb. load when used for fall arrest and 3,000 lb. load when used for fall restraint.

#### ANCHOR BOLTS:

Anchors include factory supplied fasteners that are certified for installation. DO NOT MAKE ANY SUBSTITUTIONS OR USE GENERIC TYPES. Order fasteners using designated Part Numbers in this manual.

#### BOLTING THE ANCHOR TO A PURLIN:

With the stem on the upslope side of the purlin as shown in Fig. 1. Position the anchor on the overlap or nesting area of the purlins, or within 12" of the supporting beam junction. See Fig. 2&3.

#### INSPECTION AND MAINTENANCE:

Before installation, make sure anchor is free of damage that may result from shipping, storage, or handling. Ensure that factory supplied fasteners are present and undamaged.

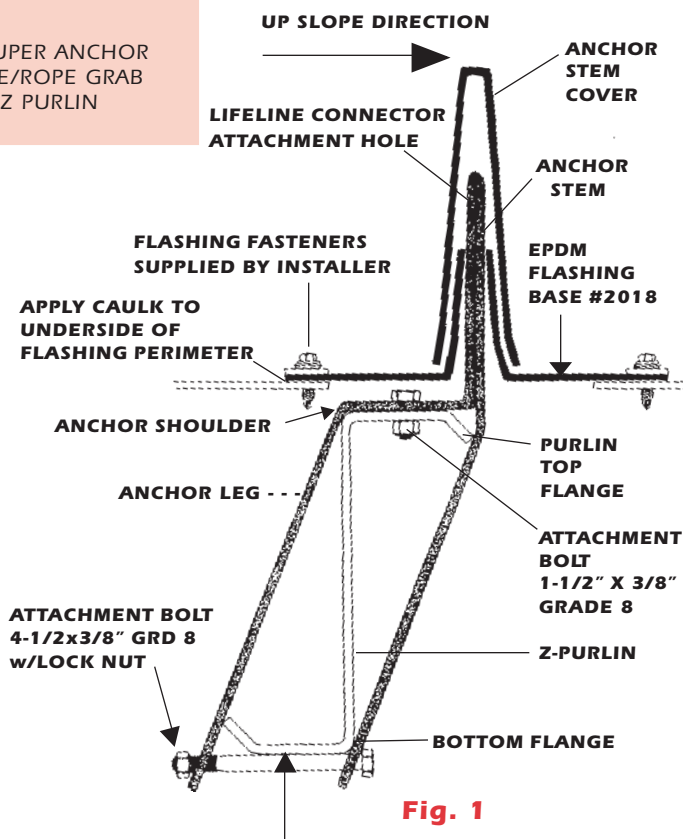
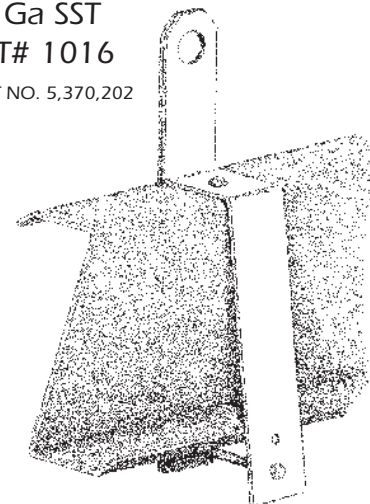
After installation and before each use, visually inspect that attachment bolts are in place and the anchor stem has not been bent or subjected to a fall impact.

#### IF THE ANCHOR IS DAMAGED OR A FALL OCCURS:

REMOVE AND REPLACE THE ANCHOR AND FASTENERS WITH NEW ONES, AND DO NOT ATTEMPT TO REPAIR OR RE-USE THE DAMAGED ANCHOR OR BOLTS: DO NOT TIE-OFF TO A DAMAGED OR BENT ANCHOR.

INSPECT PURLIN ATTACHMENT POINT FOR DAMAGE BEFORE INSTALLING A NEW ANCHOR.

**FACTORY SUPPLIED FASTENERS ARE TESTED AND CERTIFIED FOR USE WITH THE SUPER-Z PURLIN ANCHOR ONLY. BOTH ATTACHMENT BOLTS MUST BE USED. DO NOT SUBSTITUTE WITH GENERIC TYPE FASTENERS.**



**Fig. 1**

Due to variables in purlin dimension a gap may occur between the bolt and bottom flange. Use the hole location that fits best. **DO NOT DRILL THE PURLIN OR ANCHOR.**

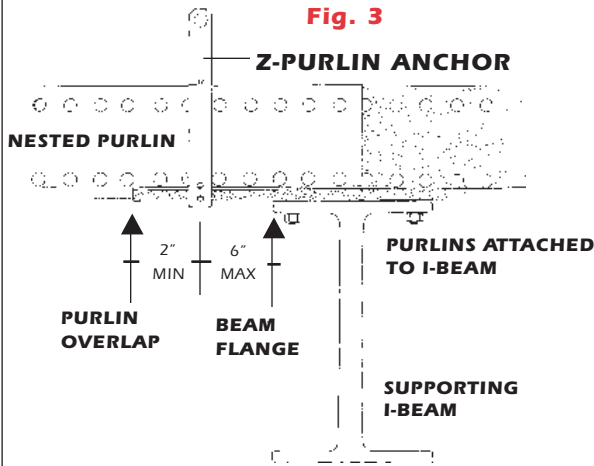
#### FACTORY BOLT PACKAGE PART # 2013 DIE CHROMATE GRADE 8

- 1- 4-1/2x3/8" LEG BOLT
- 1- 1-1/2x3/8" SHOULDER BOLT
- 2- NYLOCK 3/8" NUT



THE IMPROPER USE OF ANCHORAGE DEVICES AND A FAILURE TO USE OTHER SAFETY EQUIPMENT COMPONENTS THAT ARE COMPATIBLE, MAY CREATE UNFORESEEN HAZARDS THAT COULD RESULT IN SERIOUS INJURY OR DEATH TO THE USER, IN THE EVENT OF A FALL.

## ATTACHING ANCHOR TO PURLIN



**Fig. 3**

### NESTED PURLINS:

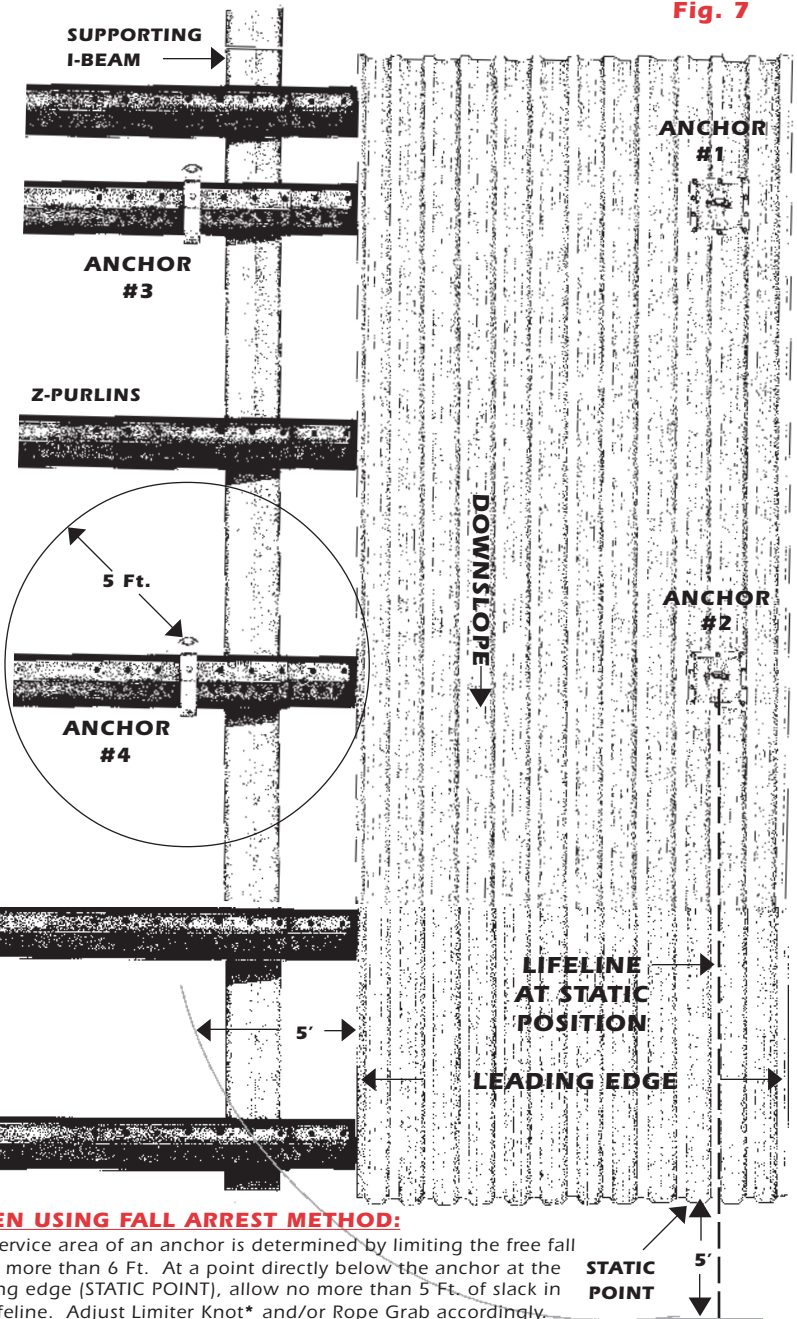
Position anchor over nested purlin overlap no more than 6.0" from outside edge of top beam flange and with at least 2.0" of purlin overlap extending beyond the anchor. See Fig. 3.

Purlins must be bolted together and attached to the supporting beam structure before being used for fall protection.

### SINGLE PURLINS:

Purlins must be bolted to the supporting structure on both ends. Position the anchor between two bolted ends no more than 6.0" from the outside edge of the I-Beam top flange. **WARNING: DO NOT ATTACH THE ANCHOR TO A CANTILEVERED AREA OF THE PURLIN. IT MAY FAIL IF A FALL OCCURS.**

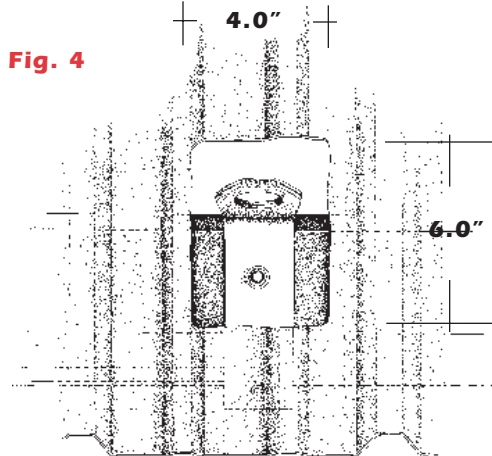
## ANCHOR LAYOUT / SAMPLE PLAN



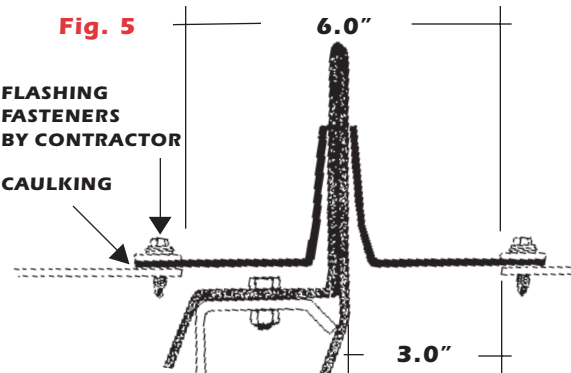
**Fig. 9**

### ROOF DECK PENETRATION:

To facilitate removal of a damaged anchor, the roof deck must be cut-out as shown in Fig. 4. The opening must not be more than 6" x 4" to allow the caulking and flashing reinforcing band sufficient overlap of the decking.

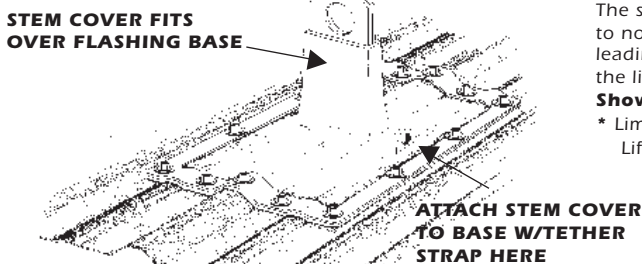


**Fig. 4**



**Fig. 5**

### EPDM FLASHING BASE:



**Fig. 6**

### WHEN USING FALL ARREST METHOD:

The service area of an anchor is determined by limiting the free fall to no more than 6 Ft. At a point directly below the anchor at the leading edge (STATIC POINT), allow no more than 5 Ft. of slack in the lifeline. Adjust Limiter Knot\* and/or Rope Grab accordingly. **Shown at Anchor #2.**

\* Limiter Knot is a feature used by the "FALL ARRESTOR"® Lifeline System.

When there is no work platform or surface area as shown for Anchor #4, adjust lifeline or lanyard to limit free fall a maximum of 6 Ft. This will create a working radius of approx. 5 Ft.

**WARNING: WHEN WORKING OPEN AREAS, ENSURE THAT NO FALL IMPACTS OR OBSTACLES ARE LOCATED BELOW THE WORK AREA.**

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