



SUPER ANCHOR SAFETY®

ARS Permanent Roof Anchor Instruction/Specification Manual 2018

ENGLISH
VERSION

!WARNING TO USER!

You are required to read and use the Instruction/Specification manual supplied at the time this device was shipped. Improper use and installation can result in serious injury or death. Follow inspection requirements before each use.

Materials Specifications

Anchor: 430 stainless steel

14 or 11 gauge as specified.

Temperature Range: 430sst is rated for -30°F up to +120°F

Min. Tensile Strength: 5,000lb(22.5kN)

Attachment Bolt: 5/16-18 x 2-1/4" grade 8 w/lock nut.

Teko Nails: 1-1/4" zinc plated

The term **SAS** used in this manual refers to **Super Anchor Safety**.

Compliance: OSHA1926:502/1910.66
Z359.1-07/A10.32-2012

ARS 2x4 Meets Safety Code for use in Québec.
Certified by a member of l'Ordre des ingénieurs du Québec.

Specification of Use

A permanent fall protection anchor attached to wood or steel framed top chords or other framing members. Waterproofing requires the use of an **SAS** factory supplied flashing system with base flashing perimeter caulking supplied by the user. See Table 1.

Fall Protection Specification

ARS anchors are rated for Fall Arrest or Fall Restraint for one person with a maximum body weight of 340lb(154kg) including tools and equipment. Do not attach more than 1 person or 1 connector to an ARS anchor. **HLL:** ARS anchors may be used for a Horizontal Lifeline System (**HLL**) when designed by a qualified person or supplied by **SAS**.

Slope: Maximum Slope 24/12

Installation

Attach anchors to a 2x top chord with a single bolt and stabilized with Teko nails. The anchor shoulder is required to rest onto the top chord as shown at Fig.3 with sheathing installed over the shoulder top as shown at Figs. 5 and 6.

Bolt Under: ARS 2x4 and 2x8 are designed to bolt under the top chord wo/blocking as shown at Fig.3, 4 and 7.

Drill Through: ARS anchors may be attached by drilling through the top chord with a 5/16"d. drill as shown at Fig.2.

Blocking: ARS 2x8 anchors bolted under 2x4 or 2x6 top chords require 16" blocking as shown at Fig.8. The blocking should be secured to the top chord to prevent movement.

Fasteners

Attachment Bolt: Anchors are supplied with certified **SAS** grade 8 x 5/16" attachment bolt. Do not substitute with other grades or sizes. Stainless steel grade 316 bolts/nuts are available upon request.

Teko Nails: Anchors are supplied with 6 ea. 1-1/4" length Teko nails to stabilize the anchor and prevent movement during use. Use 3 nails in each leg as shown at Fig.2 and 3.

Table 1

| Part No. | Anchor Model | 430 SST | Fits Top Chord |
|-------------------------------|--------------|-----------|----------------|
| 1022 | 2x4 | 14 | △2x4 |
| 1006 | 2x8 | 14 | △ 2x8 |
| 2805 | 2x8 | 11 | |
| Tile Roof | | | |
| 1069 | 2x8 | 14 | △2x8 |
| Flashings: | | Roofing | Base |
| 2001- PVC | | All types | 8x10" |
| 2003- 2.5lb Lead | | All types | 12x16" |
| 2020 EPDM/Aluminum | | Tile | 20x20" |
| 2018 EPDM | | Metal | 8x8" |
| 2007 Stem Cover Black Polymer | | | |

△ Bolt through all top chords

Fig.1

ARS Anchor w/Flashing

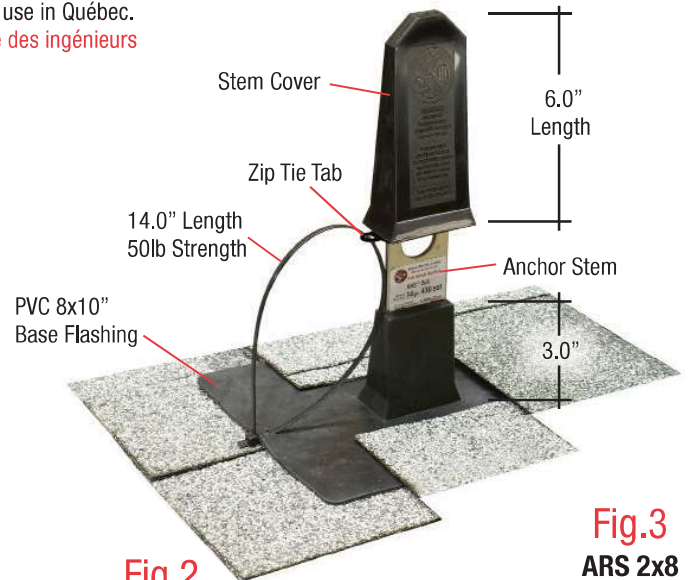


Fig.2

ARS Tile-Roof



Fig.3
ARS 2x8

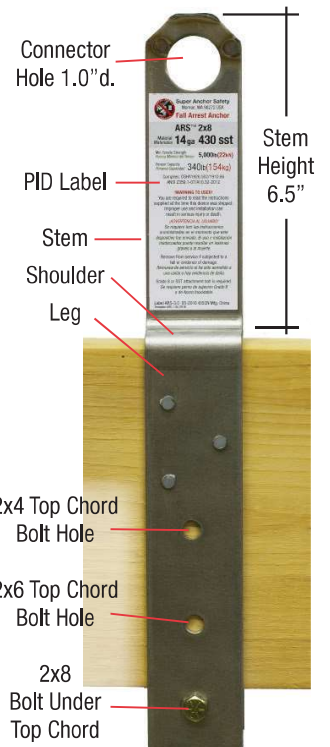
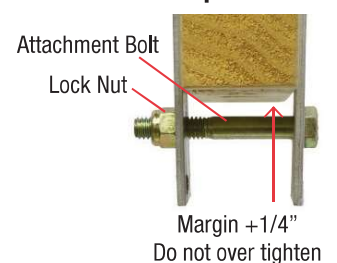


Fig.4

Bolt Under Top Chord



PPE/Connectors/Energy Absorber

Workers using ARS anchors are required to use PPE that is certified to comply with current industrial safety standards.

Connectors: PPE or SRL's attached to the ARS anchor must have class 1 connectors with 3,600lb(16kN) locking gates. **WARNING!** The use of a personal energy absorber is required.

Framing Requirements

Install onto top chords that are 2x4 or of greater dimension. Framing must be capable of supporting a 5,000lb(2,260kg) load or 2 times the intended fall protection load as specified by OSHA 1926.502(d)(15)(i)(ii) or equal industrial standard. Do not install onto framing that is damaged and do not install directly over spliced top chords or truss web connector plates.

Sheathing

Anchors are designed to be installed onto the top chord with a min. 7/16" plywood or OSB sheathing covering the anchor shoulders as shown at Fig.5. Anchors may be installed over the top of the sheathing but will require drill through attachment and the stem cover flashing may not seat properly over the base flashing due to the increased stem height.

Anchor Evacuation

If anchors are to be evacuated after use a 3x3" opening is required in the sheathing as shown at Fig.6.

Inspection Prior to Use

Anchors should be visually inspected prior to use. Confirm the attachment bolt is either drilled through or bolted under the top chord as shown at Figs 7 and 8.

WARNING! DO NOT USE anchors if any of the following conditions are present:

- Attachment bolts are missing.
- Anchor stem is deformed (See Fig.9).
- Anchor has been subjected to a free fall or other damage.

Removal From Service

Anchors that do not pass inspection, have been damaged or subjected to a free fall, must be removed from service and disposed of in a way that prevents further use.

Anchor Location and Spacing

As shown at Fig.7-8, anchors are installed approx.12" down from the ridge or in other areas of a framed structure. Anchor locations should be specified by a competent or qualified person or consult SAS plan service for an engineered system. The maximum spacing w/o/engineering for rafters over 6ft in length is 8ft as shown at Fig.10. Shorter rafter lengths will require closer spacing between anchors.

Fig.5



Fig.6

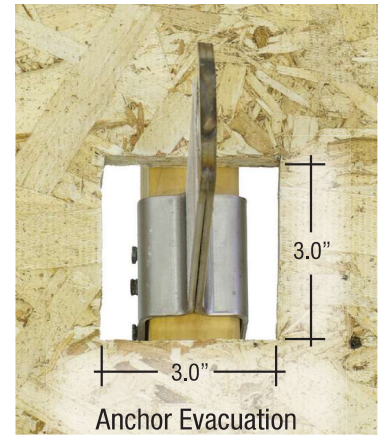


Fig.7

ARS Anchor Position From Ridge

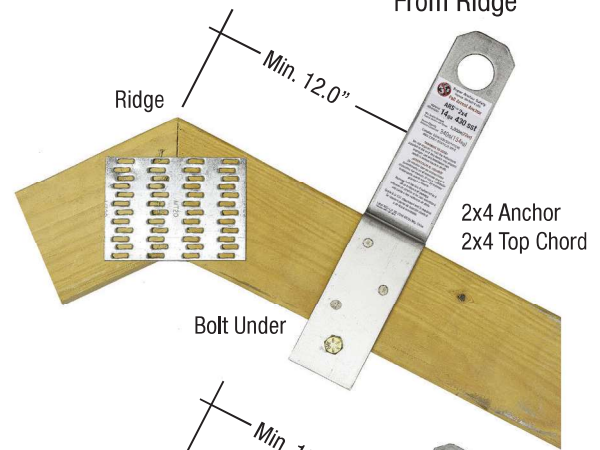


Fig.8

Anchor Blocking

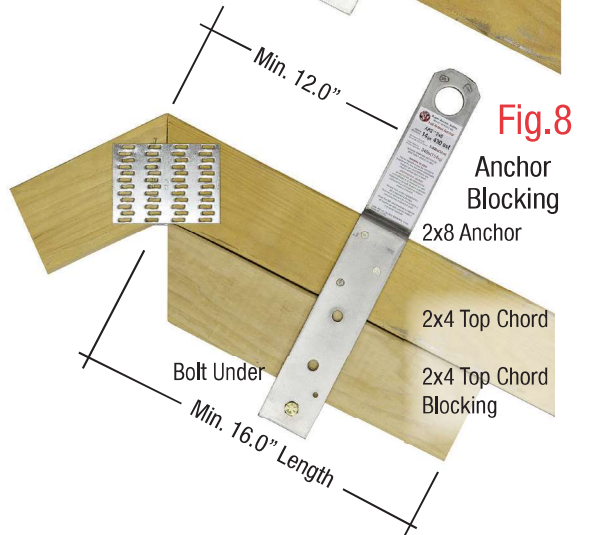


Fig.9



Fig.10

