



# SUPER ANCHOR SAFETY®

## RS Series Anchors Instruction/Specification Manual 2025

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.

### Material Specifications

**Anchor Leg:** 430 Stainless Steel  
**RS-10/20/Retro-Fit:** 2 Layers 20ga  
**D-ring:** Dacromet coated Stamped D-ring  
**Min. Tensile Strength:** 5,000lb (22.5kN)  
**Fastener Holes:** 3/16" d.

### Compliance

OSHA 1926.502/ANSI Z359.18-17 Type A  
 \*"Qualified or Competent Person" see OSHA definition.  
 X = Inspection references.  
 SAS = Super Anchor Safety.

### Specified Use

**Fall Protection Anchor:** Fall arrest and fall restraint.  
**Max. User Wt:** 310lb (140kg), including tools and equipment.  
**Max. Free Fall:** 6ft.  
**Max. Arrest Force:** 1,800lb.  
**Max. Slope:** 12/12.  
**Metal Decking:** RS-20 only. Min. 20ga. Requires to use Blazer™ 12-14 screws. See RS Metal Deck Addendum 08-2020. Request DHG fastener report 09-25-2020.

### Personal Protective Equipment (PPE)

PPE must comply with current OSHA, ANSI or CSA standards.  
**Connectors:** ANSI or CSA compliant snaphooks/carabiners w/3,600lb gate strengths.  
 Required to use a personal energy absorber (E/A) with a max. arrest force of 1,800lb. or a SLR-LE.

### Framing Requirement

The wood structure to which an anchorage device is attached must be capable of sustaining 2 times the intended fall protection load or 5,000lb without engineering by a competent person.\* Min. 2x4 top chord with min. 7/16" OSB sheathing. **WARNING!** Sheathing must be installed prior to use for fall protection. See Figs. 3, 4 and 13.

### Non-Specified Use

Window washing anchors. Horizontal lifeline systems. Work positioning, scaffolding anchors, hoisting or lifting.

### Fastener Specifications

See Table 1 for SAS factory supplied nails and screws.  
 Flush mount Bugle Head screws using a cordless drill with lowest possible torque setting.

### WARNINGS!

- Always wear eye protection when installing fasteners.
- Use only SAS certified fasteners.
- Do not substitute with other types.
- Do not install screws by hammering.
- Do not reuse fasteners.

### Fastener/Anchor Inspection Prior to Use

Check the underside of framing at anchor location and inspect for blow-outs. Remove anchors if any of the following conditions are present:

- Deformation of D-ring or shackle.
- Missing fasteners.
- Fastener blow-outs.
- See Fig. 4.
- Subjected to a free fall.

Table 1 SAS Supplied Fasteners/Service Load

Fasteners			▲ Max Service Load Applied	
Part No.	Min.	Types	0°-30° Angle	Over 30°
RS-10	6	3" SST Spiral Nails Bugle Head Screws	3,600lb See Fig.5	Fall Restraint Use Only! No risk of Free Fall
Retro-Fit	8			
RS-20	8			

▲ SAS energy absorber MAF = 1,800lb + safety factor x2.

Fig.2

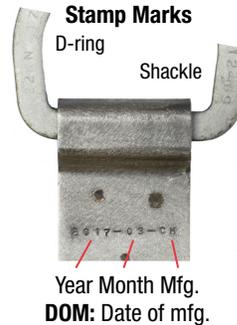


Fig.3.1



Fig.1

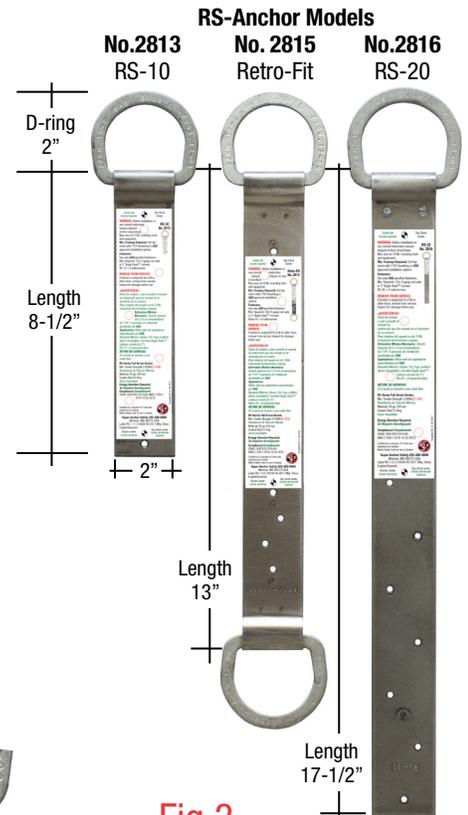


Fig.3

### Anchor/Fastener Attachment

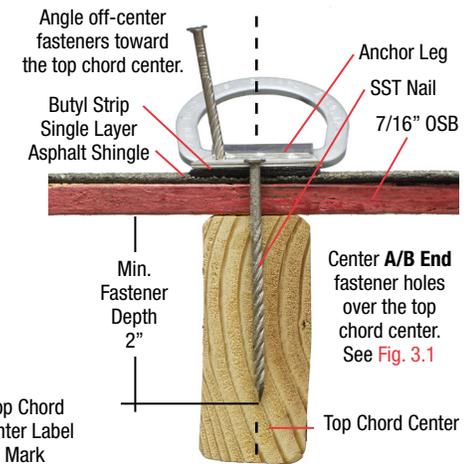
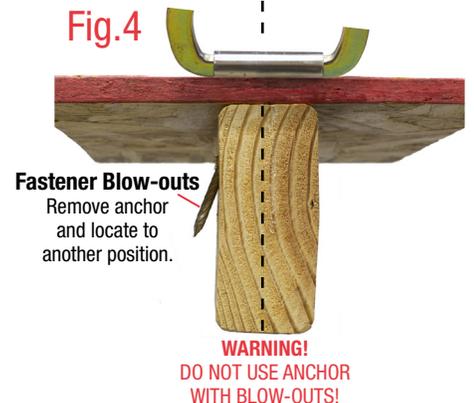
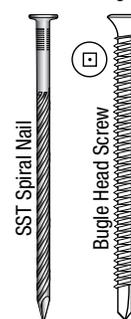
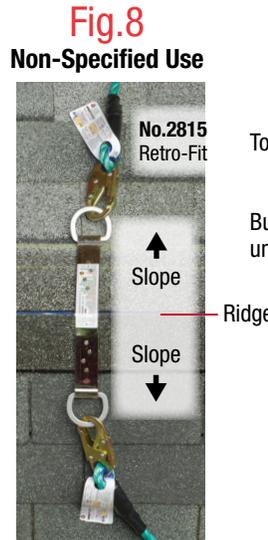
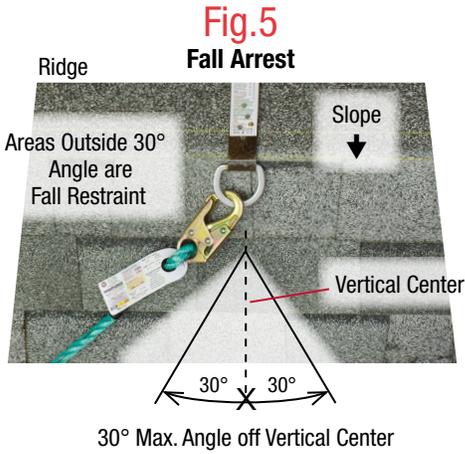


Fig.4



### Fastener Types 3" Min. Length





### Direction of Fall Protection Load

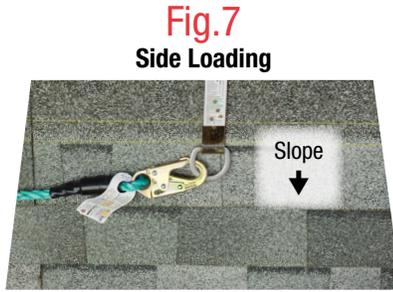
**Fall Arrest:** Do not exceed a 30° angle from the anchors vertical center. See Fig.5.

Do not use on slopes greater than 12/12.

**Fall Restraint:** No exposure to a free fall. perimeter edge or other fall hazard. See Fig.7,13.

### Reverse and Side Load Warning!

Shown at Figs. 6, and 10b, fasteners may unzip, (pull out) when subjected to a free fall resulting in serious injury or death. Do not side load anchors when exposed to a fall hazard, static loading, or slopes over 12/12.



Multiple anchors correctly spaced are required to avoid side loading when exposed to a free fall hazard.

### Anchor Location/Spacing

Install anchors at the ridge or in the field a min. of 6ft from gable edges or free fall hazards.

See Fig.13. Space anchors a max. of 8ft o.c. or as specified in a job specific plan, (JSP) by a competent person.\* Contact SAS plan service for an anchor location plan. Do not install anchors over hips or the underside or side of a top chord.

### Vertical Wall

Use only No.2816 RS-20 with Bugle Head screws. Attach anchor to a fully sheathed wall that is braced to support the fall protection load. See Fig.3 and 13. Do not use nails for vertical wall anchor attachment.

### Permanent Installation over Roofing Membrane

Use SAS supplied butyl strips or caulking between the anchor leg underside and the roofing material. See Figs.3 and 9. Caulk fastener heads and leg sides for slopes less than 4/12, or in high wind areas.

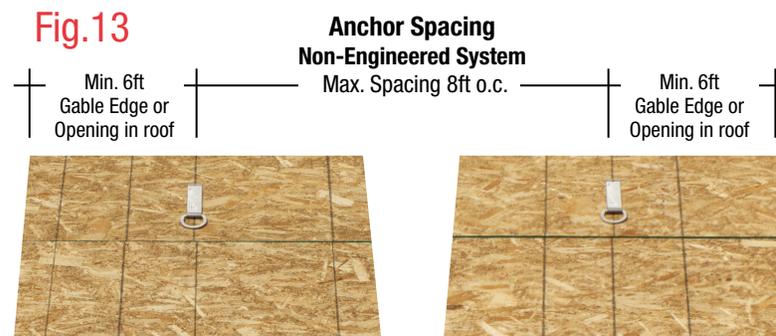
### Re-Roofing

Table 1 fasteners are specified for a single layer of asphalt roofing material. The min.fastener depth into a top chord is 2". See Fig.4. Contact SAS for longer length fasteners when installing over more than one layer of asphalt roofing.

### Tile Roofing Specification

Use No.2816 RS-20 and install one anchor on each side of the ridge or in the field. Conform the anchor leg to the tile profile. See Fig.11. Position the D-ring exposure before installing the anchor. See Fig.12. A min. of 5 fasteners are required starting at the top of the leg.

**D-ring Position:** High profile tile caps (barrel) and pans may not align with the top chord as shown at Fig.11.



Short rafter lengths will require closer spacing between anchors and require engineering by a competent person.\*

**Service Load**  
PPE attachment to the D-ring must be downslope from vertical center. See Fig.5.



**Overlapping Tiles:** It may be necessary to remove material from the tiles underside for proper fit over the anchors leg. Caulk the overlap if necessary to prevent wind driven particles and water penetration.