SECTION 07227 - FALL PROTECTION DEVICES
COMPONENT SPECIFICATION: STAINLESS STEEL CUP POINT SET SCREW, 3/8-16 x 1-1/4 IN.

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes: Stainless steel cup point (cupped tip) socket set screw used as the seam clamping fastener for the Standing Seam Roof Anchor (SSRA1) fall protection system.

B. Related Sections:

   a. Section 07227 - Fall Protection Devices (Standing Seam Roof Anchor SSRA1)

   b. Section 07410 - Metal Roof and Wall Panel

1.02 REFERENCES

A. (ASTM) American Society for Testing and Materials

   a. ASTM F880 - Standard Specification for Stainless Steel Socket, Square Head, and Slotted Headless Set Screws

B. (ASME) American Society of Mechanical Engineers

   a. ASME B18.3 - Socket Cap, Shoulder, Set Screws, and Hex Keys (Inch Series)

   b. ASME B1.1 - Unified Inch Screw Threads (UN and UNR Thread Form)

C. (OSHA) Occupational Health And Safety Administration

   a. OSHA 1926.502 - Fall Prevention Systems Criteria and Practices

1.03 SYSTEM DESCRIPTION

A. General: Headless hex socket set screw with a cup point, threaded the full length of the body. When torqued to specification, the hardened cup edge seats against the standing seam and provides the clamping force between the anchor body and the seam without penetrating the panel.

1.04 SUBMITTALS

A. Product Specifications: This component specification documents material, dimensional, and mechanical requirements.

B. Maintenance Data: Instructions for use, torque values, and replacement intervals are included in the SSRA1 Owner's Manual.

PART 2 - PRODUCTS

2.01 DISTRIBUTOR

A. Provide replacement set screws distributed by:

Fall Protection Distributors, LLC. 7436 Evesborough Lane New Port Richey, FL 34655

www.FallPD.com 863.703.4522

2.02 MATERIALS

A. Material: Austenitic 18-8 stainless steel (Type 304, UNS S30400) conforming to ASTM F880.

B. Hardness: Condition CW (cold worked) per ASTM F880, 96 HRB to 33 HRC Rockwell (216 to 327 DPH Vickers).

C. Finish: Plain passivated stainless steel. No supplemental coating is required for corrosion resistance.

2.03 DIMENSIONAL SPECIFICATIONS

A. Dimensions per ASME B18.3 and threads per ASME B1.1:

Nominal Thread	3/8-16 UNC, Class 2A
Nominal Length	1-1/4 in.
Thread Length	Full length of body
Point Style	Cup (cupped tip)
Cup Point Diameter	0.194 in. min. to 0.212 in. max.
Hex Socket Size	3/16 in.
Minimum Key Engagement	0.188 in.

2.04 FABRICATION

A. Manufacture to precise dimensions and free of defects to assure proper performance and appearance.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install set screws according to the SSRA1 Owner's Manual and the Competent Person's recommendations. The torque of the set screws is of utmost importance. All cupped tip set screws are to be torqued to 90 in/lbs.

B. Do not substitute set screws of other materials, lengths, or point styles. Nylon tip set screws, when used in place of cupped tip set screws, follow a separate torque requirement of 180 in/lbs.

3.02 INSPECTION AND REPLACEMENT

A. Inspect set screws before each use. Replace any set screw that shows thread damage, corrosion, or a worn or deformed cup edge.

B. Replace set screws after any fall arrest event or when the cup edge no longer seats firmly against the seam at the specified torque.