

SECTION 07227 - FALL PROTECTION DEVICES

PART 1 – GENERAL

1.01 SUMMARY

- A. Section Includes: Fall arrest and restraint anchor system for worker fall protection.
- B. Related Sections:
 - a. Section 05100 – Structural Metal Framing
 - b. Section 05300 – Metal Deck
 - c. Section 05400 – Cold Formed Metal Framing
 - d. Section 05900 – Metal Restoration and Cleaning
 - e. Section 07410 – Metal Roof and Wall Panel
 - f. Section 07590 – Roof Maintenance and Repairs
 - g. Section 07700 – Roof Specialties and Accessories

1.02 REFERENCES

- A. (ASTM) American Society for Testing and Materials
- B. (ANSI) American National Standard Institute
 - a. ANSI Z359.1-2007 – Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components
- C. (OSHA) Occupational Health And Safety Administration
 - a. OSHA 1926.502 – Fall Prevention Systems Criteria and Practices

1.03 SYSTEM DESCRIPTION

- A. General: Provide fall protection anchoring point capable of withstanding loads as provided under OSHA and ANSI provisions as well as other applicable safety codes. Provide removable standing seam anchor point without penetrating the seams.
- B. Design Requirements: Standing seam anchor point of following types:
 - a. Standing Seam Roof Anchor (SSRA1), for individual worker, capable of withstanding load as allowed by OSHA/ANSI 5,000 lbs. standards with a safety factor of 2.
- C. Performance Requirements: Anchor and components tested for the following loads:
 - a. Fall Restraint: 1 User
 - b. Fall Arrest: 1 User
 - c. Design standing seam anchor to resist a 5,000 lbs. load from any direction.

1.04 SUBMITTALS

- A. Product Specifications: Specify fabrication details and installation instructions for each device.
- B. Shop Drawings: Provide stamped engineered drawings by Licensed Engineer in the project State.
- C. Maintenance Data: Instructions for use and care of devices should be included in the User Manual with each device.
- D. Test Reports: Provide independent 3rd party test results to assure compliance with all safety standards.

1.05 CONTRACTOR COORDINATION

- A. Contractor to coordinate selection and installation of standing seam roof system to be structurally sound and compatible with Standing Seam Roof Anchor (SSRA1) fall protection anchors. Panel selection can be matched with Panel Compatibility Chart at www.FallPD.com.
- B. Qualified Person to make ultimate decision on the structural integrity and compatibility of the SSRA1 and the standing seam roof system. Selected panels must be compatible with SSRA1 and must be capable of withstanding maximum loads as allowed under the OSHA and ANSI standards.

1.06 WARRANTY

- A. Provide lifetime manufacturer's warranty against defects under normal working conditions and proper care.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Provide standing seam anchor fall protection system manufactured by Action Manufacturing, and distributed by:

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

www.FallPD.com 863.703.4522

Due to the unique, patented abilities of this device, substitutions are not allowed.

2.02 MATERIALS

- A. Anchor Body: 6061-T6 Aluminum
- B. Top Bolts: Type 316 Stainless Steel
- C. Lock Washers: Type 316 Stainless Steel
- D. Set Screws: Stainless Steel (Cupped Tip or Nylon Tip May Be Used)
- E. D-Ring: Plated, non-corrosive steel

2.03 MANUFACTURED ASSEMBLIES

- A. Standing Seam Roof Anchor SSRA1

2.04 FABRICATION

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

PART 3 – EXECUTION

3.01 INSPECTION

- A. ON-site competent person to determine that the standing seam roof system is structurally sound and capable of withstanding full loading of the anchor system. Competent Person to determine proper location of each anchor paying special attention to avoid swing falls.

- B. Install anchors according to the Competent Person's recommendations and follow all safety guidelines included in the Owner's Manual. The torque of the set screws is of utmost importance. All cupped tip screws are to be torqued to 90 in/lbs. and all nylon tipped set screws are to be torqued to 180 in/lbs.