

SECTION 07 72 00
ROOF ACCESSORIES

PART 1 - GENERAL

1.1 DESCRIPTION:

- A. This section specifies roof mounted fall protection system.

1.2 RELATED WORK:

- A. Section 13 34 19: Metal Building Systems

1.3 QUALITY ASSURANCE:

- A. Provide roof accessories that are the products of manufacturers regularly engaged in producing the kinds of products specified.
- B. For each accessory type provide the same product made by the same manufacturer.
- C. Assemble each accessory to the greatest extent possible before delivery to the site.

1.4 SUBMITTALS:

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Shop Drawings: Each item specified showing design, details of construction, layout, installation and fastenings.
- C. Manufacturer's Literature and Data: Each item specified.

1.5 APPLICABLE PUBLICATIONS:

- A. The publications listed below form a part of this specification to the extend referenced. The publications are referenced in the text by the basic designation only.
- B. Federal Specifications (Fed. Spec.):
- RR-G-1602D.....Grating, Metal, Other Than Bar Type (Floor,
Except for Naval Vessels)
- C. ASTM International (ASTM):
- A653/A653M-10.....Steel Sheet, Zinc-Coated (Galvanized) or Zinc-
Iron Alloy-Coated (Galvannealed) By the Hot-Dip
Process
- B209-14.....Aluminum and Aluminum Alloy-Sheet and Plate
- B209M-14.....Aluminum and Aluminum-Alloy Sheet and Plate
(Metric)
- B221-14.....Aluminum-Alloy Extruded Bars, Rods, Wire,
Shapes, and Tubes

- B221M-13.....Aluminum and Aluminum-Alloy Extruded Bars,
Rods, Wire, Shapes, and Tubes (Metric)
- C726-12.....Mineral Wool Roof Insulation Board
- C1289-14a.....Faced Rigid Cellular Polyisocyanurate Thermal
Insulation Board
- D1187/D1187M-97(R2011)..Asphalt-Base Emulsions for Use as Protective
Coatings for Metal
- D. National Association of Architectural Metal Manufacturers (NAAMM):
AMP 500 Series.....Metal Finishes Manual
- E. American Architectural Manufacturers Association (AAMA):
2603-13.....Performance Requirements and Test Procedures
for Pigmented Organic Coatings on Aluminum
Extrusions and Panels
- 2605-13.....High Performance Organic Coatings on
Architectural Extrusions and Panels.
- 611-14.....Anodized Architectural Aluminum
- 621-02.....High Performance Organic Coatings on Coil
Coated Architectural Hot Dipped Galvanized
(HDG) and Zinc-Aluminum Coated Steel Substrates
- F. American Society of Civil Engineers (ASCE):
ASCE 7-10.....Minimum Design Loads for Buildings and Other
Structures
- G. U.S. National Archives and Records Administration (NARA):
29 CFR 1910.23.....Guarding Floor and Wall Openings and Holes

PART 2 - PRODUCTS

2.1 MATERIALS:

- A. Zinc-plated/Powder Coated steel
- B. Anodized 6061-T6 Aluminum
- C. Stainless Steel: 304 and 18-8

2.2 FALL PROTECTION SYSTEM

- A. System Description:
1. Surface mounted base plate, posts, and anchor points manufactured to be installed with non-penetrating clamps on standing seam metal roofing.
 2. A horizontal cable lifeline will connect each anchor point for continuous access on roof.
- B. Anchor Requirements:

1. Powder coated steel base plate, sized to anchor to standing seam metal roofing.
2. Clamping mechanism and extension bars to be anodized aluminum or stainless steel S-5 style friction clamp.
3. Post Requirements:
 - a. Stainless steel energy absorber
 - b. Stainless steel internal connecting components
 - c. Anodized cast aluminum post plates
 - d. Powder coated steel post tube
 - e. HDPE plate seals
- C. Lifeline Requirements:
 1. Cable: 8 mm diameter stainless steel cable, 7x7 thread minimum.
 2. Breaking strength: > 12,445 lbf
 3. Support & Hardware: 315 Stainless Steel
- D. Performance Requirements:
 1. Activation force: 1000 lbs
 2. Maximum Capacity: 310 lbs.
 3. Must meet OSHA requirements for fall protection
 5. ANSI A10.32 and ANSI Z359.1-2007
- E. Basis of design, or approved equal: Miller ShockFusion Model #SFLB20L182/120

PART 3 - EXECUTION

3.1 INSTALLATION:

- A. Install roof specialties where indicated on construction documents.
- B. Secure with fasteners in accordance with manufacture's printed installation instructions and approved shop drawings unless shown otherwise.

3.2 PROTECTION OF ALUMINUM:

- A. Provide protection for aluminum against galvanic action wherever dissimilar materials are in contact, by painting the contact surfaces of the dissimilar material with two (2) coats of asphalt coating (complete coverage), or by separating the contact surfaces with a preformed neoprene tape having pressure sensitive adhesive coating on side.

- B. Paint aluminum in contact with wood, concrete and masonry, or other absorptive materials, that may become repeatedly wet, with two coats of asphalt coating.

3.3 PROTECTION:

- A. Protect roof accessories from damage during installation and after completion of the work from subsequent construction.

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