

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

07 71 23 MANUFACTURED GUTTERS AND DOWNSPOUTS

PART 1 - GENERAL

1.01 DESIGN CRITERIA

- A. Design and size gutter and downspout systems to accommodate a 5-year storm rainfall intensity.
- B. Coordinate installation of gutters and downspouts with interfacing and adjoining construction to provide a leak-proof, secure and noncorrosive installation.
- C. Slope gutters to downspouts minimum 1/16" per foot.
- D. Materials:
 - 1. Exterior downspouts and gutters: Steel, aluminum, or copper.
 - 2. Interior downspouts: Insulated cast iron or insulated PVC.
 - 3. Buried downspouts: SDR-35.
- E. Fasteners:
 - 1. Provide fasteners, protective coatings and sealants for complete watertight gutter system as recommended by manufacturer.
 - 2. On-center spacing of fasteners shall not exceed 2 feet, regardless of the type of fastener used.
- F. Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with bituminous coating or by other permanent separation as recommended the manufacturer.

PART 2 - PRODUCTS

2.01 STEEL

- A. 24 gauge minimum

2.02 SEAMLESS ALUMINUM

- A. Gutters = .032" minimum
- B. Downspouts = .027" minimum

2.03 FINISHES

- A. Factory-applied Polyvinylidene Fluoride (PVDF)

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1. Pre-approved Manufacturers: Kynar 500
 2. Alternatives require approval by WSU Roofing Shop
- B. Color shall be selected from the manufacturer's standard color line and approved by the WSU Project Manager.

PART 3 - EXECUTION

3.01 DELIVERY AND STORAGE

- A. Unload, store, and install sheet metal flashing materials and fabrications in a manner to prevent bending, warping, twisting and surface damage.

3.02 INSTALLATION

- A. Join length of gutters and downspouts with formed seams sealed watertight.
- B. Flash and seal gutters to downspouts and accessories.

END OF SECTION