

SECTION 221426

ROOF DRAINS

PART 1 GENERAL

1.01 PRODUCTS NOT PROVIDED UNDER THIS SECTION

- A. Flashing and Trim: Construction Work Contract.
- B. Openings in Steel, Precast Concrete and Prestressed Concrete Deck Units: Construction Work Contract.

1.02 REFERENCES

- A. Unless otherwise specified, the Work of this Section shall meet the applicable requirements of ASME A112.21.2 - Roof Drains.

1.03 SUBMITTALS

- A. Product Data: Catalog sheets, specifications and installation instructions.
- B. Contract Closeout Submittals:
 - 1. Operation and Maintenance Data: Deliver 2 copies, covering the installed products, to the Director's Representative.

1.04 MAINTENANCE

- A. Special Tools: Deliver to the Director's Representative.
 - 1. Tools for Vandal Resistant Fasteners: One for each type and size.

PART 2 PRODUCTS

2.01 ROOF DRAINS

- A. Drain Body: Coated cast iron, large size sump, minimum 15 inch dia, with integral bosses or lugs drilled and tapped for fastening flashing clamp and underdeck clamp, corrosion resistant bolts, bottom outlet, and connection to match piping option selected.
- B. Flashing Clamp: Coated cast iron, non-puncturing type compression ring with integral, notched gravel stop and dome locking receiver.
- C. Dome Strainer: Coated cast iron, low profile type, with narrow vertical slotted openings, bayonet locking flange, secured with stainless steel vandal resistant fasteners.
 - 1. Minimum Dome Strainer Opening Area:

CONNECTING PIPE SIZES (Inches Nominal)	DOME STRAINER FREE AREA (Square inches)
2	18
3	25
4	36
5	50
6	70

- D. Acceptable Drain Series: Josam 21500, Smith 1010, Wade W3000, and Zurn Z100.

2.02 FASTENERS

- A. Corrosion Resistant Fasteners: Brass, bronze, or Type 302 or 304 stainless steel bolts acceptable.
- B. Vandal Resistant Fasteners: Torx head with center pin.
- C. Anti-Seize Lubricant: Never-Seez by Bostik Chemical Group, Broadview, IL; Molycote 1000 by Dow Corning Corp, Midland, MI; Anti-Seize Lubricant by Loctite Corp, Newington, CT.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install the Work of this Section in accordance with manufacturer's printed installation instructions, unless otherwise specified.
- B. Coordinate drain installation with deck and roofing Work.
- C. Unless otherwise indicated by dimensions on the Drawings, locate drains as follows:
1. Place drains minimum 3 feet away from items on roof (parapets, walls, gravelstops, pipes, vents, scuttles, equipment and curbs, etc.) to allow for flashing.
 2. Install drains at low points of roof deck and where normal deck deflection will be at its maximum.
- D. Drains in Cast Concrete: Set and securely brace drain body so that sump flange is level with, or slightly below surface of concrete.
- E. Fasteners:
1. Coat bolt threads with anti-seize lubricant before final installation.
 2. Secure external components in place with vandal resistant fasteners or devices which cannot be removed without special tools.

END OF SECTION