SECTION 15160

ROOF DRAINS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Bi-functional roof drains.

1.2 RELATED SECTIONS

A. Section 15100 - Building Services Piping.

B. Section 7500 - Roofing

1.3 REFERENCES

A. ANSI/ASME A112.21.2M - Roof Drains.

B. IAPMO IGC 187-2003 Roof Drains with Integral Overflow Drain

C. ASTM A 48 - Standard Specification for Gray Iron Castings.

1.4 SUBMITTALS

A. Comply with Section 01330 - Submittal Procedures.

B. Product Data: Submit manufacturer's product data, including installation instructions.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions.

C. Handling: Protect materials from damage during handling and installation.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. Froet Industries LLC. 1741 Industrial Drive, Sterling, Illinois 61081 PH. 815-626-7922 Fax 815-626-0702.

Web Site www.froetindustries.com. E-mail info@froetindustries.com .

2.2 MATERIALS

A. Roof Drains: 100C4 bi-functional roof drain.
   1. Compliance: ANSI/ASME A112.21.2M. and IAPMO IGC 187-2003
   2. Body: Patented bi-functional body. Powder coated, ASTM A 48, Class 25 cast iron body with anchor flange.
   3. Dome Strainer: Cast Iron strainer. Min: Free area of 136 square inches (87,741 mm^2).
   4. Membrane Clamp Ring: 2.375-inch (61-mm) wide, ASTM A 48, Class 25 cast iron, waterproofing membrane clamp ring with integral gravel stop.
   5. Pipe Size: 4 inches (100 mm)and 6 inches (152 mm)

B. Roof Drain Options:
   1. LP-Low profile roof drain 4" overflow height
   2. OFS-Overflow Strainer: Debris strainer for overflow pipe
   3. DEX (2,4,6)-adjustable extension (2", 4" and 6") to adjust proper primary outlet elevations in relation to deck thickness and/or to adjust drain inlet elevations in relation to insulation thickness.
   3. FR-Finishing Ring; recessed ring to allow the drain body to be installed in flush configuration and/or to be used to install drain with extensions used to adjust for thicker deck sections.
   4. DC-Deck Clamp; underdeck clamp (used to secure drain to deck). Exterior clamp
   5. IG (4,6)-IRMA Guard (4",6") high type #304 stainless steel perforated gravel guard (attaches to drain ring to prevent ballast and debris from entering drain area when installed with an IRMA roofing system.
   6. DP-deck plate
   7. SP- 1 ½" deep sumped drain pan (needs to be field cut)
   8. DMP- Deck mounting plate allows drain to be directing mounted to plate and eliminates need for deck clamp. **Important condition: requires a minimum of 2 ½" of insulation on top of roof deck**

C. Specified Drain Configuration:
   1. 100C4, 100C6,

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine areas to receive roof drains. Notify Architect of conditions that would adversely affect installation or subsequent use. Do not proceed with installation until unsatisfactory conditions are corrected.

3.2 INSTALLATION

A. Install roof drains in accordance with manufacturer's instructions at locations indicated on the drawings.

B. Install roof drains plumb, level, and to correct elevation.

C. Install roof drains using manufacturer's supplied hardware.

3.3 PROTECTION

A. Protect installed roof drains from damage during construction.

END OF SECTION