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## Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The Project Resource Manual—CSI Manual of Practice, Fifth Edition*.

This section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all “Specifier Notes” after editing this section.

Section numbers are from *MasterFormat 1995 Edition*, with section numbers from *MasterFormat 2004 Edition* in parentheses. Delete version not required.

### SECTION 15155 (22 13 19.13)

#### FLOOR DRAINS

Specifier Notes: This section covers ProSet Systems “T-Rite” drains, an F-rated and T-rated firestop device for floor/shower/hub drains. The device complies with IBC Building Code Section 712.4.1.1.2 for through-penetration firestop system and UBC Building Code Section 710.2.3 for penetration firestop system. Consult ProSet Systems for assistance in editing this section for the specific application.

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. F-rated and T-rated firestop devices for floor/shower/hub drains.

##### 1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.

- A. Section 15150 (22 13 16) – Sanitary Waste and Vent Piping.

### 1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. ASME A112.6.3 – Floor and Trench Drains.
- B. ASTM E 814 – Standard Test Method for Fire Tests of Through-Penetration Fire Stops.
- C. Canadian Standards Association (CSA) B 79 – Floor, Area, and Shower Drains, and Cleanouts for Residential Construction.
- D. NSF/ANSI 14 – Plastics Piping System Components and Related Materials.

### 1.4 SUBMITTALS

- A. Comply with Section 01330 (01 33 00) – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including installation instructions.
- C. Shop Drawings: Submit manufacturer's shop drawings, indicating materials, components, strainers, dimensions, and details for connections to pipe.
- D. Test Reports: Submit manufacturer's testing information of firestop systems, including:
  - 1. F-rating and T-rating in accordance with ASTM E 814.
- E. Closeout Submittals: Submit manufacturer's maintenance 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 and finish from damage during handling and installation.

## PART 2 PRODUCTS

### 2.1 MANUFACTURER

- A. ProSet Systems, Inc., 1355 Capital Circle, Lawrenceville, Georgia 30043. Toll Free (800) 262-5355. Phone (770) 339-1782. Fax (770) 339-1784. Website [www.proventsystems.com](http://www.proventsystems.com).

### 2.2 FLOOR DRAINS

- A. F-Rated and T-Rated Firestop Devices for Floor/Shower/Hub Drains: "T-Rite" drains.

B. Description:

1. Firestop device with 4-1/2-inch long, 26-gauge sheet metal extension sleeve that attaches to embedded floor/shower drain base after the concrete pour from below and extends down 3 inches into the fire zone.
2. Floor/Shower Drains:
  - a. 2-Inch pipe Size: 4-1/2-inch diameter metal extension sleeve.
  - b. 3-Inch pipe Size: 6-inch diameter metal extension sleeve.
3. Red Intumescent Wrap: Used to close opening quickly and prevent smoke infiltration and heat from raising temperature of metallic strainer.
  - a. 4-1/2-Inch Diameter Sleeve: 2 inches by 3/8 inch.
  - b. 6-Inch Diameter Sleeve: 2 inches by 5/8 inch.
4. Ratings, ASTM E 814:
  - a. F-Rating: 2 hours.
  - b. T-Rating: 2 hours.

C. Compliance:

1. ASME A112.6.3.
2. NSF/ANSI 14.
3. CSA B 79.
4. ICC 2218 Trap Guard protection.

D. Load Rating:

Specifier Notes: Edit the following for the specified strainer material.

1. [Nickel Bronze] [Chrome Plated] [Polished Brass] Strainer: Maximum 2,000 pounds.
2. Cast Iron Strainer: Maximum 7,499 pounds.

E. Body:

1. Diameter:

Specifier Notes: Edit the following for the specified strainer material.

- a. [Nickel Bronze] [Chrome Plated] [Polished Brass] Strainer Base: 7 or 8 inches.
2. PVC body with anchor flange and weep holes.

Specifier Notes: Specify throat and thread sizes.

3. Throat: [2 inches] [3 inches]. [3-1/2 inches] [4 inches]
4. Threads: [2-inch] [3-inch] [3-1/2-inch] [4-inch] NPS machined integral-body threads or 3-1/2-inch fine thread for JR Smith tops.

F. Strainer:

Specifier Notes: Specify strainer shape and material or all other preferred spec type manufacturers strainers tops can be used.

1. Shape: [Round] [Square] [Rectangle]. [As indicated on the drawings].
2. Material: [Nickel bronze] [Chrome plated] [Polished brass] [Heavy-duty cast iron] [As indicated on the drawings].

Specifier Notes: Specify Phillips head or vandal resistant screws.

3. Screws: Stainless steel. [Phillips head] [Vandal resistant].

Specifier Notes: Delete the funnel drain top if not required.

G. Funnel Drain Top: 2-3/8 inches by 3-1/2 inches.

H. Tailpiece: Same material as strainer.

Specifier Notes: Specify pipe size.

I. Pipe Size: [2 inches] [3 inches] [4 inches] [As indicated on the drawings].

J. Type of Floor/Shower Drains:

Specifier Notes: Specify the type of "T-Rite" drains required for the specific application. Delete floor/shower drain types not required.

1. Adjustable Floor Drain for Plastic Pipe Above Ground Floor with Built-In Intumescent Wrap Strip: Connects floor drain to plastic pipe in above ground concrete floor slab.
2. Adjustable Floor Drain for Cast Iron Pipe Above Ground Floor: Connects floor drain to cast iron pipe in above ground concrete floor slab.
3. Adjustable Floor Drain for Plastic Pipe in Corrugated Metal Floor: Connects floor drain to plastic pipe in metal deck floor slab.
4. Non-Adjustable Floor Drain for Plastic Pipe through Cored Hole: Connects floor drain to plastic pipe through cored concrete floor slab.
5. As indicated on the drawings.

Specifier Notes: Include the following if "T-Rite" drains are required.

K. Hub Drains:

1. Size: [2 inches by 3 inches] [2 inches by 4 inches] [3 inches by 4 inches] [As indicated on the drawings].
2. Plumbing Connection: [Plastic pipe] [Cast iron pipe] [As indicated on the drawings].

Specifier Notes: The recessed strainer is optional. Delete if not required.

3. Recessed Strainer: Recessed down 1-1/2 inches inside hub.

### **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Examine areas to receive F-rated and T-rated firestop devices for floor/shower/hub drains.
- B. Notify Architect of conditions that would adversely affect installation or subsequent use.
- C. Do not begin installation until unacceptable conditions are corrected.

### **3.2 INSTALLATION**

- A. Install F-rated and T-rated firestop devices for floor/shower/hub drains in accordance with manufacturer's instructions at locations indicated on the drawings.
- B. Install F-rated and T-rated firestop devices for floor/shower/hub drains plumb, level, and to correct elevation.
- C. Install top of F-rated and T-rated firestop devices for floor/shower/hub drains flush with finished floor.
- D. Install F-rated and T-rated firestop devices for floor/shower/hub drains using manufacturers supplied hardware.
- E. Plastic Strainer Cover: Remove factory-installed protective plastic strainer cover after concrete placement.
- F. Factory-Installed Elastomeric Plug Under Strainer: Employ as test plug and remove before normal floor/shower drain use.
- G. Seal seepage openings in F-rated and T-rated firestop devices for floor/shower/hub drain body with mastic when pan is not used.

Specifier Notes: Include the following if "T-Rite" hub/floor drains are required.

- I. Hub Drains:
  - 1. Install top of hub drains 1 inch above finished floor.
  - 2. Use manufacturer's coupling connection for cast iron pipe.
  - 3. Remove factory-installed protective cap after concrete placement.

### **3.3 PROTECTION**

- A. Protect installed F-rated and T-rated firestop devices for floor/shower/hub drains and finish from damage during construction.

**END OF SECTION**