

DRAINAGE PIPING SPECIALTIES 15155 - 1

SECTION 15155 - DRAINAGE PIPING SPECIALTIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following drainage piping specialties:

1. Cleanouts.
2. Floor drains.
3. Miscellaneous drainage piping specialties.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

1.4 QUALITY ASSURANCE

A. Drainage piping specialties shall bear label, stamp, or other markings of specified testing agency.

B. Comply with NSF 14, "Plastics Piping Components and Related Materials," for plastic sanitary and storm piping specialty components.

PART 2 - PRODUCTS

2.1 CLEANOUTS

A. Floor Cleanouts:

1. Floor cleanouts shall be equal to Zurn ZN-1400 "Level-Trol" series adjustable top with nickel bronze frame and scoriated floor cover. Coordinate cleanout style with flooring materials;
 - a. General Use: Equal to Zurn ZN-1400-2.
 - b. Tile Floors: Equal to Zurn ZN-1400-6.
 - c. Carpet Floors: Equal to Zurn ZN-1400-14

B. Wall Cleanouts:

1. Wall cleanout shall be standard DWV pipe fitting with threaded female port and threaded plug constructed of material compatible with piping system. Cleanout cover shall be round with attached with flathead screw, equal to Zurn Z-1460-9, polished stainless steel finish.

DRAINAGE PIPING SPECIALTIES 15155 - 2

C. End Cleanouts:

1. End cleanout shall be standard DWV pipe fitting with threaded female port and threaded plug constructed of material compatible with piping system Copy and edit paragraph and subparagraphs below for each type of exposed metal cleanout required. If only one type is required, drawing designation may be omitted.

2.2 FLOOR DRAINS

1. Available Products:

- a. Josam Co.
- b. Smith, Jay R. Mfg. Co.
- c. Tyler Pipe, Wade Div.
- d. Watts Industries, Inc., Drainage Products Div.
- e. Zurn Industries, Inc.

2. Floor Drains: Floor drains shall be Dura-coated cast iron body and clamping collar with nickel bronze top. Coordinate top (round or square) with floor finish. Floor drain outlets shall be 3" drain pipe size minimum unless noted otherwise on drawings.

3. Drain equal to Zurn Z-415 Type "B" or Type "J" top (coordinate with finish flooring) with trap primer connection. Provide with funnel where indicated on drawings.

2.3 MISCELLANEOUS DRAINAGE PIPING SPECIALTIES

A. Air-Gap Fittings:

1. Standard: ASME A112.1.2, for fitting designed to ensure fixed, positive air gap between installed inlet and outlet piping.
2. Body: Bronze or cast iron.
3. Inlet: Opening in top of body.
4. Outlet: Larger than inlet.
5. Size: Same as connected waste piping and with inlet large enough for associated indirect waste piping.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Refer to Division 15 Section "Basic Mechanical Materials and Methods" for piping joining materials, joint construction, and basic installation requirements.

B. Install cleanouts in aboveground piping and building drain piping according to the following, unless otherwise indicated:

1. Size same as drainage piping up to NPS 4. Use NPS 4 for larger drainage piping unless larger cleanout is indicated.
2. Locate at each change in direction of piping greater than 45 degrees.
3. Locate at minimum intervals of 50 feet for piping NPS 4 and smaller and 100 feet for larger piping.
4. Locate at base of each vertical soil and waste stack.

DRAINAGE PIPING SPECIALTIES 15155 - 3

- C. For floor cleanouts for piping below floors, install cleanout deck plates with top flush with finished floor.
- D. For cleanouts located in concealed piping, install cleanout wall access covers, of types indicated, with frame and cover flush with finished wall.
- E. Install floor drains at low points of surface areas to be drained. Set grates of drains flush with finished floor, unless otherwise indicated.
 - 1. Position floor drains for easy access and maintenance.
 - 2. Install floor-drain flashing collar or flange so no leakage occurs between drain and adjoining flooring. Maintain integrity of waterproof membranes where penetrated.
 - 3. Install individual traps for floor drains connected to sanitary building drain, unless otherwise indicated.
- F. Install floor-drain, trap-seal primer fittings on inlet to floor drains that require trap-seal primer connection.
- G. Install air-gap fittings on indirect-waste piping discharge into sanitary drainage system.
- H. Install wood-blocking reinforcement for wall-mounting-type specialties.
- I. Install traps on plumbing specialty drain outlets. Omit traps on indirect wastes unless trap is indicated.
- J. Install escutcheons at wall, floor, and ceiling penetrations in exposed finished locations and within cabinets and millwork. Use deep-pattern escutcheons if required to conceal protruding pipe fittings.

3.2 CONNECTIONS

- A. Piping installation requirements are specified in other Division 15 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Install piping adjacent to equipment to allow service and maintenance.

3.3 FIELD QUALITY CONTROL

- A. Tests and Inspections:
 - 1. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.

3.4 PROTECTION

- A. Protect drains during remainder of construction period to avoid clogging with dirt or debris and to prevent damage from traffic or construction work.
- B. Place plugs in ends of uncompleted piping at end of each day or when work stops.

END OF SECTION 15155