DIVISION 15 - MECHANICAL

Section 15440 - Plumbing Fixtures

Introduction

Fixtures and appurtenances associated with the use of plumbing system piping including:

DOMESTIC WATER SYSTEMS, SANITARY SEWER SYSTEMS

Part 1 - General

- Refer to Section 15000 “Provisions for Future Expansion and/or Installations and Section 15050 Part 3 - Execution”.
- All fixtures shall be of the “water saving type”.
- Install fixtures as required for either standard or handicapped accessible service per ADA.

Part 2 - Products

- Water Closets, Wall Mount shall be/provided with:
  - Vitreous china construction, white
  - Elongated bowl
  - 1 ½” inlet spud
  - Siphon jet action
  - ANSI Standard A112.19.2
- Toilet Seats shall be:
  - Open front.
  - Injection molded of high strength, impact, and chemically resistant polypropylene.
- Flushometers
  - Manufactured by Sloan (Royal # 111 for water closets 1.6 gpf, Royal #186 for urinals, 1.0 gpf)
- Faucets And Trim shall be/provided with:
  - Cast brass with polished chrome plating.
  - All faucets and trim furnished shall be by Chicago Faucet or American Standard.
  - No push button faucets.
  - Single lavatory faucet for rest rooms (no hot water).
  - Moderators
  - Plug and tailpiece: P.O. plug with 13” tailpiece. Non-removable strainer with integral spud. (No. 327)
  - DI water faucets shall be PVDF lined, self closing, with swing gooseneck.
- Wall Mount Lavatories shall be/provided with:
  - Vitreous china with:
    - Front overflow
    - Self-draining deck area with contoured back and side splash shields
    - 4” centers or as required for handicapped faucets
    - Equipped for carrier
    - ANSI Standard A112.19.2
• Urinals shall operate as waterless with Ecoblue cubes as follows:
  • Urinals to be vitreous china, white, Zurn Model number Z5750
  • Provide programmable Flushometer with Ecoblue flush control (EAUTO)
  • Tailpiece to be PVC-DWV pipe (no copper to be used to eliminate corrosion issues)
  • Two wall hangers
  • ASME Standard A112.19.2 M-95, ANSI Z 124.9-94

• Mop Sinks (Floor Service Sink) shall be/provided with:
  • Acid resisting, enameled cast iron
  • Removable vinyl-coated rim guard
  • 3” drain
  • ANSI Standard A112.19.1.M

• Service Sinks shall be/provided with:
  • Acid Resisting, enameled cast iron
  • Rim guard
  • Wall Hanger
  • Drilled for back mount faucet
  • Floor supported trap
  • ANSI Standard A112.19.1.M

• Stainless Steel Sinks shall be/provided with:
  • 18 gauge brushed stainless steel.
  • Flat back extension with centerset holes 8" on center for faucet set.

• Water Coolers shall be/provided with:
  • Single unit, installed at height for handicapped accessibility/operation.
  • One-piece stainless steel backsplash plate and basin.
  • Exterior casing to be stainless steel or vinyl coated steel.
  • 8.0 gallons per hour minimum capacity.
  • Non-CFC refrigerant.
  • Fittings, Except Faucets
    • Angle stops and other fittings shall be fabricated of brass with a polished chrome plated finish.
    • Trap piping and tailpiece shall be chrome plated finish.
    • Escutcheons: polished chrome-plated, steel shell wall flange with friction clips.

• Plumbing Fixture Supports shall be/provided with:
  • ASME rated for service.
  • Chair carriers: supports with steel pipe uprights for wall hanging fixtures. Heavy duty chair carrier shall have rectangular steel uprights.

Part 3 - Execution

• Refer to Section 15000 “Provisions for Future Expansion and/or Installations and Section 15050 Part 3 - Execution”.
Installation

- Install stop valves in a readily accessible location.
- Install escutcheons at each wall and ceiling penetration in exposed locations and within cabinets and millwork. Use deep pattern escutcheons where required to conceal protruding pipe fittings.
- Seal fixtures to walls, floors, and counters using a sanitary type, one part, mildew resistant white silicone sealant.
- Single faucets shall not be used in conjunction with cock hole covers. Provide lavatory or sink with correct hole configuration for specified service.

End of Section 15440