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:
  - Vitreous china construction, white
  - Elongated bowl
  - 1 ½” inlet spud
  - Siphon jet action
  - ANSI Standard A112.19.2
  - American Standard AFWALL Millennium FloWise Elongated Flushometer Toilet with Everclean finish or Kohler
  - Flushometer - Sloan Royal #111, 1.28 gallons per flush

- Toilet Seats shall be:
  - Open front.
  - Injection molded of high strength, impact, and chemically resistant polypropylene.

- Faucets and Trim shall be/provided with:
  - 0.5 gpm laminar flow
  - Cast brass with polished chrome plating.
  - All faucets shall be Hands free Sloan Optima EAF 150 and Sloan SF-2450
  - 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:
  • American Standard Lucerne
  • 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 Ecoblu cubes as follows:
  • Urinals to be vitreous china, white- Zurn Model number Z5755-U
  • Provide programmable Flushometer Sloan Royal #186, 0.5 gallons per flush with Ecoblu Urinal Flush Saver EUFS-S set for .5 hour intervals
  • 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 with:
  • 18 gauge brushed stainless steel.
  • Chicago Faucets No. 50-GN8AE35-317XKAB, Sink Faucet for hot and cold water, single-hole deck mount, chrome plated. Rigid/swing gooseneck spout, 8”center-to-center. 1.5 GPM (5.7 L/min) pressure compensating Softflo aerator. 4” metal, vandal-proof, Wrist blade handles with sixteen-point, tapered broach and secured blue and red index buttons. Ceramic quarter-turn cartridge, features square, tapered stem. Flexible stainless steel supply hoses with 3/8” compression fitting. Mounting hardware included. ECAST®® construction with less than 0.25% lead content by weighted average. This product meets ADA ANSI/ICC A117.1 requirements and is tested and certified to industry standards: ASME A112.18.1/CSA B125.1, and Certified to NSF/ANSI 61, Section 9 by CSA.

• 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.
• Install bottle filler – Elkay EZH2O Vandal-Resistant Bottle Filling Station & Single Cooler Non-Filtered 8 GPH Stainless Model VRCGRN8WSK

• 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