

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 Ecoblue 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 Ecoblue 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