

**SECTION 22 40 00
PLUMBING FIXTURES**

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Plumbing fixtures, associated trim and fittings necessary to make a complete installation from wall or floor connections to rough piping, and certain accessories.

1.2 SUBMITTALS

- B. Submit plumbing fixture information in an assembled brochure, showing cuts and full detailed description of each fixture.
- C. Submit Operation Manuals

1.3 APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. The American Society of Mechanical Engineers (ASME):
A112.6.1M-08.....Floor Affixed Supports for Off-the-Floor
Plumbing Fixtures for Public Use
- C. American with Disabilities Act (A.D.A) Section 4-19.4 Exposed Pipes and Surfaces

PART 2 - PRODUCTS

2.1 STOPS/ VALVES

- A. Provide lock-shield loose key or screw driver pattern angle stops, straight stops or stops integral with faucet, with each compression type faucet whether specifically called for or not. Locate stops centrally below fixture in an accessible location. Shield or locate stops and piping to prevent contact with human legs on wheelchair in accordance with A.D.A Section 4-19.4.
- B. Furnish keys for lock shield stops to Contracting Officers Technical Representative (COTR).
- C. Supply risers from stops not integral with faucet shall be chrome plated copper flexible tubing or flexible stainless steel with inner core of non-toxic polymer.

2.2 ESCUTCHEONS

- A. Heavy type, chrome plated, with set screws. Provide for piping serving plumbing fixtures and at each wall, ceiling and floor penetrations in exposed finished locations and within cabinets and millwork.

2.3 LAMINAR FLOW CONTROL DEVICE

- A. Smooth, bright stainless steel or satin finish, chrome plated metal laminar flow device shall provide non-aeration, clear, coherent laminar flow that will not splash in basin. Device shall also have a flow control restrictor and have vandal resistant housing.
- B. Flow Control Restrictor:
Capable of restricting flow to 1.0 gpm for lavatories. Operates by expansion and contraction, eliminates mineral/sediment build-up with self-clearing action, and is capable of easy manual cleaning.

2.4 CARRIERS

- A. Lavatory, ASME A112.6.1M, Lavatory shall be capable of supporting 400 lbs vertical load applied at the front of the fixture and countertop assembly.

~~2.5 SEATS~~

- ~~— Extra heavy duty, chemical resistant, solid plastic, closed front with cover for elongated bowls, integrally molded bumpers, concealed check hinge with stainless steel posts. Color shall be white. The seat shall properly fit the bowl and can stand in a open position without assistance.~~

~~2.6 FLUSH VALVES~~

- ~~A. Flush Valve Type 3 (Water Closet)
— Flush valve, high efficiency, non-hold open ADA compliant side oscillating handle, 4.8 Lpf (1.28 gpf) with maximum 10 percent variance, chloramines resistant exposed fixed volume piston type flush valve, 38 mm (1 1/2 inch) top spud, chrome plated spud coupling, chrome plated cast wall flange with set screw, sweat solder adapter with chrome plated cover tube, chrome plated back check angle stop, vandal resistant stop cap, high back pressure vacuum breaker,~~

~~2.7 WATER CLOSETS~~

- ~~A. Water Closet, handicap accessible, floor mount, floor outlet, top spud, white vitreous china, elongated high efficient siphon action jetted bowl, MPAA score minimum of 700. Minimum (2 inch) fully glazed trapway, fully glazed exterior concealed trapway~~
- ~~B. Fittings and Accessories: Floor flange fittings cast iron; Gasket wax; bolts with chromium plated cap nuts and washers.~~

2.8 FAUCETS

- 1. Lavatory Faucet: deck mount, 2-handle control, 228 mm (9 inch) rigid gooseneck spout, chrome plated solid brass construction, 1/4 turn 4" wristblade type handles. Maximum flow 0.5 gpm. Locate spout to allow maximum hand cleaning room.

2.9 LAVATORIES

- A. Lavatory handicap accessible vitreous china, undermount, front overflow, concealed support. Or integrated solid surface bowl with front overflow.
1. Drain: Cast or wrought brass with flat grid strainer and offset tailpiece, chrome plated. Provide handicap compliant waste pipe cover in accordance with A.D.A 4-19.4.
 2. Overflow drain built into unit by manufacturer.
 3. Stops, traps, and water supply piping cover in accordance with A.D.A 4-19.4.
 4. Trap: Cast copper alloy, 40 by 32 mm (1-1/2 by 1-1/4 inch) P-trap. Adjustable with connected elbow and 1.4 mm thick (17 gauge) tubing extensions to wall. Exposed metal trap surface and connection hardware shall be chrome plated with a smooth bright finish. Set trap parallel to wall. Provide handicap compliant waste pipe cover in accordance with A.D.A 4-19.4.

3.0 Cleaning

- A. At completion of all work, fixtures, exposed materials and equipment shall be thoroughly cleaned.

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