

**SECTION 22 40 00
PLUMBING FIXTURES**

PART 1 - GENERAL

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, including:

1. Floor Sinks
2. Water Closets
3. Lavatories
4. Service Sinks
5. Sinks
6. Urinals
7. Toilet Seats
8. Shower Units
9. Fixture Trims

2. SUBMITTALS

- A. Submit in accordance with GENERAL CONDITIONS and SUPPLEMENTARY GENERAL CONDITIONS.
- B. Submit plumbing fixture information in an assembled brochure, showing cuts and full detailed description of each fixture, including sizes, rough in dimensions, utility sizes, trim and finishes.

3. OPERATION AND MAINTENANCE DATA

- A. Submit O&M Manuals. Include fixture exploded view and replacement parts list.

4. WARRANTY

- A. Provide one year warranty on parts and labor.

PART 2 – PRODUCTS

1. GENERAL

- A. Refer to Plumbing Fixture Schedule on drawings for further information.

2. STAINLESS STEEL

- A. Corrosion-resistant Steel (CRS):
- B. Plate, Sheet and Strip: CRS flat products shall conform to chemical composition requirements of any 300 series steel specified in ASTM A276.
- C. Finish: Exposed surfaces shall have standard polish (ground and polished) equal to NAAMM finish Number 4.

3. 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.

4. CARRIERS

- A. ASME/ANSI A112.6.1M, with adjustable gasket faceplate chair carriers for wall hung closets with auxiliary anchor foot assembly, hanger rod support feet, and rear anchor tie down.
- B. ASME/ANSI A112.6.1M, lavatory, chair carrier for thin wall construction. All lavatory chair carriers shall be capable of supporting the lavatory with a 250-pound vertical load applied at the front of the fixture.
- C. Where water closets, lavatories or sinks are installed back-to-back and carriers are specified, provide one carrier to serve both fixtures in lieu of individual carriers. The drainage fitting of the back to back carrier shall be so constructed that it prevents the discharge from one fixture from flowing into the opposite fixture.

PART 3 - EXECUTION

1. INSPECTION

- A. Review millwork shop drawings. Confirm the location and size of the fixtures and opening prior to rough-on and installation.

2. INSTALLATION

- A. Fixture Setting: Opening between fixture and floor and wall finish shall be sealed as required.
- B. Supports and Fastening: Secure all fixtures, equipment and trimmings to partitions, walls and related finish surfaces. Exposed heads of bolts and nuts in finished rooms shall be hexagonal, polished chrome plated brass with rounded tops.
- C. Furnish and install a cast brass trap at each fixture. Trap shall have removable cleanout.
- D. Toggle Bolts: For hollow masonry units, finished or unfinished.
- E. Expansion Bolts: For brick or concrete or other solid masonry. Shall be 1/4 inch diameter bolts, and to extend at least 3 inches into masonry and be fitted with loose tubing or sleeves extending into masonry. Wood plugs, fiber plugs, lead or other soft metal shields are prohibited.
- F. Power Set Fasteners: May be used for concrete walls, shall be 1/4 inch threaded studs, and shall extend at least 1 1/4 inches into wall.
- G. Tightly cover and protect fixtures and equipment against dirt, water and chemical or mechanical injury.
- H. Where water closet waste pipe has to be offset due to beam interference, provide correct and additional piping necessary to eliminate relocation of water closet.
- I. Furnish and install chrome plated stops with rigid supplies to fixtures. All stops to have renewable seats and disks, loose keys, reducers and escutcheons.
- J. This contractor is responsible to assemble and install all plumbing fixtures whether furnished by this contractor or by others.
- K. Install all handicapped ADA fixtures per ANSI A117.1. Install pre-manufactured insulation covers for all sink and lavatory drains.

3. ADJUSTING AND CLEANING

- A. At completion of all work, fixtures, exposed materials and equipment shall be thoroughly cleaned.
- B. Adjust stops and valves at each fixture to establish intended flow rates and to prevent splashing, noise, or overflow.

- END OF SECTION -