

## SECTION 15410 (22 4000) - PLUMBING FIXTURES

## PART 1 - GENERAL

## 1.1 SUMMARY

- A. Section Includes:
  - 1. Plumbing fixtures and plumbing fixture trim furnished by Owner for installation by the Contractor.
- B. Related Requirements:
  - 1. Section 01770 – Contract Closeout: Operation and maintenance data requirements.
  - 2. Section 07900 - Joint Sealers: Sealant for fixtures at wall and floors.
  - 3. Appendix A – Products and Work By Owner or Separate Contractor
    - a. General procedures related to Owner furnished products and transport, handle, store and protect products.
    - b. Manufacturers, suppliers, and vendor contacts and product names and numbers related to Owner furnished products.

## 1.2 REFERENCES

- A. The publications listed below form a part of this specification to the extent referenced. Publications are referenced within the text by the basic designation only.
- B. NSF International (NSF):
  - 1. NSF 61 Annex G - Weighted Average Lead Content Evaluation Procedure to a 0.24 Percent Lead Requirement.

## 1.3 SUBMITTALS

- A. Submit the following in accordance Section 01330.
  - 1. Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions, maintenance and repair data, and parts listing for plumbing fixtures.

## 1.4 QUALITY ASSURANCE

- A. Regulatory Requirements:
  - 1. Products Requiring Electrical Connection: Listed and classified by Underwriter's Laboratories, Incorporated, and acceptable to the authority having jurisdiction as suitable for the purpose specified and indicated.
  - 2. Disabled Access: Conform to applicable local, State or Federal disabled access requirements for the installation, mounting heights, and operation of plumbing fixture.
  - 3. Lead-Free Compliance: Fixtures and fixture trim shall comply with the requirements of NSF 61 Annex G for lavatories, sinks and water coolers.

## 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Accept fixtures on site in factory packaging. Inspect for damage.
- B. Protect installed fixtures from damage by securing areas and by factory packaging in place to protect fixtures and prevent use.
- C. Transport, handle, store, and protect products in compliance with the requirements of Section 01600.
- D. Inspect materials delivered and reject those not qualifying with requirements, those damaged in transit, or those that appear otherwise unsatisfactory.

- E. Schedule delivery of items to installation areas that are in proper condition to receive them. Place items neatly and systematically to avoid damage, store in clean, dry, enclosed, and secure storage area.
- F. Product Delivery: Owner's Supplier will deliver Owner furnished products to site to be received by Contractor. Contact Owner's Supplier to coordinate product delivery and installation.
- G. Acceptance at Site: Inspect Owner furnished products upon delivery of products to Site to verify quantity of products furnished and report to Owner discrepancies in quantity delivered or obvious damage to products delivered to the site.

## PART 2 - PRODUCTS

### 2.1 OWNER FURNISHED PRODUCTS

- A. Owner's Suppliers will furnish plumbing fixtures and fixture trim as specified in Appendix A (Section 15410) and shown on the drawings for installation by Contractor.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine surfaces and adjacent areas where products will be installed. Verify that conditions conform to product manufacturer's requirements and installation conditions. Do not proceed until unsatisfactory conditions have been corrected.
  - 1. Verify that walls and floor finishes are prepared and ready for installation of fixtures.
  - 2. Verify that plumbing piping for fixture is in the correct location and of the correct type.

### 3.2 PREPARATION

- A. Rough-in fixture piping connections in accordance with minimum sizes indicated on Drawings for particular fixtures.

### 3.3 INSTALLATION

- A. Install fixtures and trim in accordance with manufacturer's published instructions. Make final connections.
- B. Support each fixture in rigid manner which permits no perceptible movement of fixture by manually applied forces. Seal space between fixtures and floor or walls with silicone sealant.
- C. Install trap on fixture outlet except for fixtures having integral trap. Install each fixture with trap which is easily removable for servicing and cleaning.
- D. Install components level and plumb. Install toilet seats on water closets.
- E. Install and secure fixtures in place with carriers and bolts.
- F. Solidly attach water closets to floor or wall as required.
- G. Seal fixtures to wall and floor surfaces with sealant as specified in Section 07900, color to match fixture.
- H. Install escutcheons at each wall, floor, and ceiling penetration in exposed finished locations and within cabinets and millwork. Use deep pattern escutcheons where required to conceal protruding pipe fittings.
- I. Install insulation kits on ADA compliant sink and lavatory waste, continuous wastes, hot and cold water supplies where indicated on the drawings and as required by the ADA

### 3.4 FIELD QUALITY CONTROL

- A. Inspect plumbing fixture and trim installation, attachment to building, operation, and connections. Ensure that fixtures are installed and operate in conformance with disabled access requirements.
  - 1. Prior to final acceptance, inspect faucets, flush valves, stop valves, and similar devices, to determine that they operate properly and discharge proper quantities of water. Correct any deficiencies as directed by Owner's representative.

### 3.5 ADJUSTING AND CLEANING

- A. Operate and adjust stops or valves for intended water flow rate to fixtures without splashing, noise or overflow.
  - 1. Replace malfunctioning units.
  - 2. Replace washers and seals of leaking and dripping faucets and stops.
- B. Clean fixtures, trim, and accessories of foreign materials, including labels, before final acceptance.

END OF SECTION