

CHAPTER 15D

PLUMBING SYSTEMS

15D-01 GENERAL

Definition. This chapter covers plumbing fixtures, materials, and good workmanship practices for plumbing systems.

15D-02 FIXTURES AND MATERIALS

a. Three Phase Inspections

Insure that all plumbing fixtures and materials have been submitted and approved prior to the Preparatory Inspections, fabrication, and installation. Obtain and review manufacturer s installation information. During subsequent Initial Inspections with contractor\*s CQC representative, check to see that contract requirements and manufacturer\*s recommendations were complied with during installation. Follow-up Inspections will be made as the installation of the plumbing systems progress throughout the facility under construction or renovation.

b. Storage and Handling

Insure that all materials and equipment are handled carefully, properly stored and protected to prevent damage.

(1) Reject damaged materials and equipment. Have them removed from the site.

(2) Inspect the plumbing fixtures upon arrival at the job site for conformance with contract requirements. Require adequate storage and protection from damage before and after installation. Insure that fixtures are installed in compliance with contract requirements and good plumbing practice.

(3) Withhold inventory payment for improperly stored and protected materials.

15D-03 COORDINATION OF WORK

Continually check for interferences between electrical, mechanical, architectural, and structural features especially in toilet and shower room walls, floors, and pipe chases.

15D-04 INSTALLATION

a. General

(1) Know how the plumbing system fits into the total job and where the specific items are to be installed. Prior to installing plumbing fixtures check to insure that all testing of water supply lines, vents, and drains have been completed.

(2) Check size, spacing, elevation, and location of wall and floor stub outs to receive plumbing equipment. Do not allow plumbing fixtures to be stained, or supply lines to be undersized. Insure that the stub outs are corrected as necessary prior to setting plumbing fixtures.

(3) Check location and firmness of the installation of specified equipment supports, holders, and tie down flanges.

1 Dec 92

(4) Check setting or attaching plumbing fixtures, for required seals, traps, grouting, and caulking. Check each fixture for alignment, height, anchorage and for plumbness.

(5) Check for use of chrome plating on exposed piping, valves, escutcheons, cover plates, and drains.

(6) Check for surge arrestors on lines having quick closing valves. Check for positioning of access opening to allow maintenance of surge arrestors and operation of control and shut off valves. Check for individual shut off valves at each piece of plumbing equipment.

(7) Check for connection of cold water piping to the right hand side of showers, lavatories, and sinks. Also make sure cold water is provided to toilets and urinals.

(8) Check for specified trim, materials, screws, and bolts.

b. Protection

(1) Keep trash and debris out of fixtures and drains. Check fixtures for damage during installation.

(2) Cover and protect fixtures after installation to prevent future breakage, staining, or other damage.

(3) Check workmanship on all bolting, grouting, caulking, shimming, and leveling after work in toilet and bath area after the work has been completed. All fixtures, whether wall or floor mounted, must be firmly attached in place to prevent damage to the fixtures and to the seals of the fixtures. Check to see that all materials and fixtures are sanitary anti-siphon units.

15D-05 PIPELINES. DRAINS. VENT STACKS, AND INSULATION

See Section 15A for water pipelines, fittings, valves, vents and drain lines. See Section 15C for insulation of pipe lines.

15D-06 CLEANING, ADJUSTING, AND OPERATING

a. Cleaning

(1) Inspect all surfaces for damage or stains. Replace or clean as necessary. Clean equipment before running water thru it.

(2) See that all grease, paint, plaster, spackle, spots and debris are removed. See that anchorage and seals are firm. See that equipment is still undamaged. Accept only properly working, and undamaged equipment.

b. Adjusting and Operating

(1) Flush, turn on, or otherwise run water thru system. Check flow, water levels, quietness of operation, and shut off capability. Check flow thru both fixtures and drains. Correct as necessary.

(2) Reject equipment that is damaged, does not properly operate, is not properly installed, and is not in new condition.