



# **Rough Plumbing Checklist**

**City of Rancho Palos Verdes Community Development Department**

**This is to be used as a general checklist' it is not inclusive of all code requirements & inspection criteria.**

## **The Drain and Waste Vents:**

- ✓ Drain and waste shall be checked with not less than a 10-foot head of water and shall be kept in the system for at least fifteen (15) minute before inspecting parts.
- ✓ All plastic and copper piping passing through framing members to within one (1) inch of stud face shall be protected by steel nailing plate not less than 18 gauge.
- ✓ No metal straps shall be used to support ABS piping (no plumbers tape).
- ✓ Vents extending through roofs shall be flashed and terminate vertically not less than 6 inches nor less than 1 foot from any vertical surface.
- ✓ All vent and branches vent pipes shall be free from drops or sags and each such vent shall be level or shall be so graded and connected as to drip back by gravity to the drainage pipe it serves.
- ✓ No standpipe receptor for any clothes washer shall extend more than 30 inches nor less than 18 inches above its trap.
- ✓ No trap for any clothes washer standpipe receptor shall be installed below the floor, but shall be roughed in not less than 6 inches and not more than 18 inches above the floor.

## **Gas Lines:**

- ✓ A determination that the proper gas size pipe and materials meet the code requirements.
- ✓ Gas test shall include an air pressure test, at which time the gas test shall stand a pressure of not less than 10 pounds per square inch.
- ✓ Test gauge shall have a pressure range not greater than twice the test pressure applied.

## **Roof Drains, Secondary Drain and Overflows:**

- ✓ Primary Roof Drainage, Secondary Roof Drainage and Overflows shall be tested with not less than a 10-foot head of water.
- ✓ The Secondary Roof Drains shall be the same size as the roof drain with the inlet flow line 2 inches above the low point of the roof and shall be an independent system.
- ✓ Overflow scupper shall be installed with the inlet flow line located 2 inches above the low point of the roof or the overflow scupper having 3 times the size of the roof drains and having a minimum opening height of 4 inches.

- ✓ Overflow drains shall discharge to an approved location and shall not be connected to a roof drain.

**Supports:**

- ✓ All piping, fixtures, appliance, and apparatus shall be adequately supported to the satisfaction of the Administrative Authority.
- ✓ Refer to core requirements for horizontal and vertical supports and types of joints and for plumbing pipes.
- ✓ Support all Vents, Drains, Water Lines, Gas Lines and Water Closets.

**Backwater Values:**

- ✓ Verify Back Water Valve for fixtures with a flood rim below the elevation of the upstream manhole.
- ✓ Backwater Valves shall be located where they will be accessible for inspection and repair at all times and, unless continuously exposed, shall be enclosed in a masonry pit fitted with an adequately sized removable bolted type cover.

**Penetrations:**

- ✓ Through penetrations of the fire-resistive walls shall comply with one of the following:
- ✓ Penetrations shall be installed as tested in the approved UBC Standard 7-1 (Fire Tests of Building Construction and Materials) rated assembly.
- ✓ Penetrations shall be protected by an approved penetration fire stop system installed as tested in accordance with UBC Standard 7-5 (Fire Tests of Through –Penetration Fire Stops) and shall have an F rating of not less than the required rating of the wall penetrated.

**Exceptions 1 & 2:** Through penetrations of fire-resistive horizontal assemblies shall comply with one of the following:

- ✓ Penetrations shall be installed as tested in the approved CPC Standard 7-1 (Fire Tested of Building Construction and Materials).
- ✓ Penetration shall be protected by an approved penetration fire stop system installed as tested in accordance with CPC Standard 7-5 (Fire tests of Through-Penetration Fire Stops). The system shall have an F rating and T rating of not less than one hour but not less than required rating of the floor penetrated.

**Shower Compartments:**

- ✓ Shower stalls regardless of shape shall have a minimum finished interior of 1024 inches.
- ✓ Capable of encompassing a 30 inch circle.
- ✓ The minimum are dimension shall be maintained to a point 70 inches above the shower drain.

- ✓ The dam or threshold in no case shall not be less than 2 inches or more than 9 inches in depth when measured from the top of the dam or threshold to the top of the drain.

**Exception:** Showers, which are designated to comply with the accessibility standards

- ✓ Shower and tub-shower combinations in all buildings shall be provided with individual control valves of the pressure balance or the thermostatic mixing valve type.

#### **Water Closets, Bidet and Urinals:**

- ✓ Where floor mounted or back-outlet water closets are used, the soil pipe shall not be less than 3 inches.
- ✓ No water closet or bidet shall be set closer than 15 inches from its center to any wall or obstruction or closer than 30 inches center to center to any similar fixture.
- ✓ The clear space in front of any water closet or bidet shall not be less than 24 inches.
- ✓ No Urinal shall be closer than 12 inches from its center to any side wall or partition nor closer than 24 inches center to center.
- ✓ Commercial Building & Facilities shall comply with the California State Building Code requirement for Accessibility.

#### **Water Heater and Chimney Venting:**

- ✓ Venting systems shall consist of approved, chimneys, Type B vents, Type L vents, or a venting assembly which is an integral part of or specified by the manufacturer to be used with a listed appliance.
- ✓ Water Heater Vent Connector
  - No gravity-type venting system, other than venting system which is an integral part of a listed water heater shall terminate less than 5 feet above the highest vent collar which it serves.
  - Single wall vent connectors used for gas water heaters having draft hoods may be constructed of noncombustible materials having resistance to corrosion not less than that of galvanized sheet steel. Refer to CPC section 523.2 for thickness to be determined by diameter of the connector.
- ✓ Type B gas vents with listed vent caps 12 inches in size or smaller shall be permitted to terminate in accordance with the CPC provided they are located at least 8 feet from a vertical wall or similar obstruction. All other Type B gas vents shall terminate not less than 2 feet above the highest point where they pass through the roof and at least 2 feet higher than any portion of a building within 10 feet.
- ✓ No Type L venting system shall terminate less than 2 feet above the roof through which it passes, nor less than 4 feet from any portion of the building which extends at an angle of more than 45 degrees upward from the horizontal.
- ✓ No vent system shall terminate less than 4 feet below or 4 feet horizontal from, or less than 1 foot above any door, openable window, or gravity air inlet into any building.

- ✓ No venting system shall terminate less than 3 feet above any forced air inlet located within 10 feet or less than 4 feet from any property line except a public way.
- ✓ In no case shall the area of a venting system be less than 7 square inches, unless the venting system is an integral part of a listed water heater.
- ✓ Two or more oil or listed gas-burning appliances may be connected to one common gravity-type venting system. Provided the common venting system is located within the same story of the building. Where two or more appliances are connected to one venting system, the venting system area shall not be less than the area of the largest vent connector plus 50% of the areas of the addition vent connector.
- ✓ The connector shall be not longer than 75% of the portion of the venting system above the inlet connection unless a part of an approved engineered venting system.

**Clearance to combustible material:**

- ✓ Single wall metal vent connectors shall be installed with clearance to a combustible, or not less than 6 inches.
- ✓ Double all Type B vent connectors shall be installed with clearance to combustible material of not less than 1 inch.

**Inadequate Water Pressure:**

- ✓ Whenever the water pressure in the main or other source of supply will not provide a residual water pressure of at least 15 pounds per square inch, after allowing for friction and other pressures losses, a tank and a pump or other means shall be installed to provide said 15 pounds pressure.
- ✓ Whenever fixtures and/or fixture fittings are installed, which require residual pressure higher than 15 pounds per square inch that minimum residual pressure will be provided.

**Excessive Water Pressure:**

- ✓ Where local static water pressure is in excess of 80 pounds per square inch, an approved type of pressure regulator preceded by an adequate strainer shall be installed and the static pressure reduced to 80 pounds per square inch or less.
- ✓ Any water system provided with a pressure regulating device which does not have a bypass feature at its source shall be provided with an approved, listed, adequately sized pressure relief valve.
- ✓ Reaming of pipe and tubing.
- ✓ Burred ends of all pipe and tubing shall be reamed to the full bore of the pipe and tube.