

**CPC 507.2 - Seismic Strapping of Water Heaters:**

Strapping shall be at a point within the upper 1/3 and the lower 1/3 of the water heater's vertical dimensions. At the lower point, a minimum distance of four (4) inches shall be maintained above the controls to the strap. Other methods and location may be acceptable, check with the Building & Safety Division.

**CPC 504.6 – Temperature and pressure (T&P) limiting devices:**

Shall be installed in accordance with the manufacturers installation instructions

**CPC 608.5 - Temperature and Pressure (T & P) Relief Valve Drain:**

T & P relief valves shall be provided with a drain to the outside of the building, not smaller than the relief valve outlet, of either galvanized steel, hard-drawn copper, CPVC, or listed relief valve drain tube. For more information on the termination of the T & P valve piping see reverse side.

**CPC 608.3 – Thermal Expansion Tank:**

Any water system provided with a check valve, backflow preventer, or other normally closed device that prevents dissipation of building pressure back into the water main shall have a thermal expansion tank installed.

**CPC 509.6.2.2 - Water Heater Venting:**

Type B gas vents shall extend in a generally vertical direction with offsets not exceeding 45 degrees, except that a vent system having not more than one 60 degree offset shall be permitted. Any angle greater than 45 degrees from the vertical is considered horizontal. The total horizontal distance of a vent, plus the horizontal vent connector serving draft hood equipped appliances, shall not be greater than 75 percent of the vertical height of the vent.

**CPC 509.6.1.1 - Water Heater Venting:**

Type B gas vents shall terminate at least 5 feet in vertical height above the water heater.

**CPC 509.6.1.5 - Water Heater Vent Termination:**

Vents shall terminate above the roof surface at a listed cap or listed roof assembly. Provide at least 8' feet horizontal clearance from any opening into the building.

**CPC 507.13 - Water Heaters in Garages:**

Water heaters in garages and in adjacent spaces that open to a garage shall be installed so that all burners and burner-ignition devices are located not less than 18 inches above the floor, unless listed as flammable vapor ignition resistant. Water heaters shall be located or protected so that they are not subject to physical damage by a moving vehicle.

**CPC 506.4.1 - Combustion Air Openings:**

Two permanent openings, one commencing within 12 inches of the top and one commencing within 12 inches of the bottom of the water heater enclosure shall be provided. The openings shall communicate directly, or by ducts, with the outdoors or spaces that freely communicate with the outdoors. Combustion air openings shall not be less than 100 square inches.

