

Southwest Washington Chapter of ICC

This construction detail is illustrative of the minimum standard of construction based upon the 2006 UPC / WAC 51-56

Hot and cold water pipe insulation required per WSEC Sections 503.11 & Table 5-12
6" clearance required for gas water heaters from draft hood & 6" to single wall pipe to combustibles. FGC 507.7.7

Temperature and pressure relief valve-drain to outside or other approved location-check with jurisdiction. See UPC Sections 505.4 & 505.5

Listed straps or use min. 22 gauge x 3/4" wide metal straps

Drill pilot hole on centerline of stud, use 1/4"x4" lag w/ washer

2x framing

NOTE:

1. If wall studs are not properly located to allow adequate anchorage, attach min. 2x4 cross brace to studs with 1/4" x 4" lags to studs with 1/4" x 4" lag screw and washers. Attach anchor strap to cross brace with lag screw and washers. See UPC Section 508.2. Perforated iron strap ("plumber's tape") is not an approved method of strapping per UPC 508.2.
2. See UPC Figure 5.2 for gas vent terminations.
3. No stand required where listed as vapor ignition resistant.
4. R-10 rigid insulation pad required where water heater is placed on concrete floor.
5. Install water heater tight to wall or 2x4 bracing. See above.
6. UPC 508.3. Water heater stand to be screwed or strapped to wall or floor or provide engineering calculations per IBC 1621.

Exhaust to outside- B Vent clearance to combustibles per manufacturer's Listing & 6" for single wall pipe. IFGC 503.7.7. Where vent passes through insulated assemblies, insulation shield required. Min. 26 gauge sheet to provide required clearance all around. Min. 2" above insulation and secured to prevent displacement. IFGC Section 502.4

Expansion tank required w/ closed plumbing system per UPC Section 608.3

Install 2x blocking if tank does not have stud behind in as required- See Plan View below

Cold water supply line w/ shut off

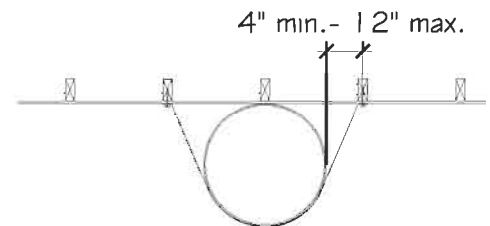
2 seismic straps required -locate @ upper and lower 1/3 of tank per UPC Section 508.2.

control unit

18" minimum required between bottom edge of source of ignition and finish floor level per UPC 508.14, unless listed as flammable vapor ignition resistant (NFPA 54: 9.1.9). See UPC 508.13.

Provide protective 3" Diam. steel bollard or equal so that water heater is not subject to physical damage by vehicle. Provide adequate anchorage to floor or embedment.

Plate anchor or embedment anchorage to floor.



PLAN VIEW