

## Plumbing Inspection Checklist Wood-framed Residential Structures (2017 ORSC)



### Building and Safety Division/Permit Application Center

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If you need the following translated in Spanish, please call 503-588-6256

Si usted necesita lo siguiente traducido en español, por favor llame 503-588-6256

The checklists are developed cooperatively within the inspection and the plan review bodies and are related directly with the current codes as adopted by the state of Oregon. They are intended to:

- Be used as guides to assist the inspectors and plans examiners to perform efficient inspections and reviews.
- Promote consistency in the application of the building code and standard practices within the city of Salem.
- Be used by the contractors and the general public to prepare for the inspections and the construction documents.

These checklists are applicable for wood frame Residential Structures. They do not include all code requirements. Therefore, they do not waive any specific code requirements not listed or allow for the decrease in the requirements of an engineered design. It also does not add requirements where the minimum of the code has been met.

### Responsibility of the permit applicant

Contractors and/or permit holders are responsible to provide the following:

1. All approved plans, documents and revisions to plans must be maintained on site and available for review at all times the building is under construction (**ORSC R106.3.1**)
2. Establish safe access to perform all inspections (**ORSC R109.1**)
3. Permit posted on site (**ORSC R105.7**)
4. Inspection Sign-off Card posted (**ORSC R105.7**)
5. Address posted on site (**ORSC R110.3**)
6. If ladders or equipment are necessary to perform inspections, all ladders and equipment shall meet minimum OSHA standards. Inspectors are not responsible for setting up or moving ladders from one location to another, within or to other buildings or structures (**ORSC R109.1**)
7. All works shall be completed prior to the time of the inspection (**ORSC R109.1**)

### General

- JP license (**ORS 693.010**)
- Piping exposed for required inspection (**OAR 918-785-0200, OPSC 1052.1, 105.2.1.1, 105.2.1.2**)
- Materials used shall be listed and approved material for the specific application (**OPSC 301**)

### Underground Inspections/Under slab Plumbing

- Required Test (**Water Working Pressure, OPSC 609.4**)
- DWV piping 10 ft head or 5 psi air test for 15min (**OPSC 712**)
- Water piping working pressure or minimum 50psi for 15min (**OPSC 609.4**)

- Pressure reducing valve required (max 80 psi) (OPSC 608.2)
- Pipe sizing as per code or plans (OPSC Table 610.3)
- Grade for drainage piping per code or plans (OPSC 718)
- Drainage fittings installed in correct relation to flow (OPSC 310.7)
- Cleanouts as per code or plans (OPSC 707.4)
- Clearance and access to cleanouts (OPSC 707.8, 707.9)
- Vents required to protect from siphoning and back-pressure (OPSC 901.2)
- Primers required for trap seal protection (OPSC 1007.1)
- Required Depth 12" below frost level (OPSC 609)
- Tracer wire required for nonmetallic (OPSC 604.10.1)
- Piping installed on a firm bed for entire length (OPSC 315.5)
- Sewer clearance from water service (OPSC 609.2)
- Connection to point of disposal (OPSC 304)
- Sewer caps required for abandoned sewers (OPSC 722.1)

### **Underfloor Plumbing**

- Pipe sizing as per code or plans (OPSC DWV Table 702.1 and 703.2, Water Table 6-10.3)
- Verify freeze protection Depth for water piping (OPSC 609.1)
- Support required for DWV and water piping (Table 313.3, 313.5)
- Drainage fittings installed in correct relation to flow (OPSC 310.7)
- Cleanouts as per code or plans (OPSC 707.4-707.8)
- Required clearance and access to cleanouts (OPSC 707.9)
- Required grade on DWV piping (OPSC 718)

### **Top Out Plumbing**

- Required Tests (OPSC 712.1, 712.2, 712.3)
- DWV piping 10 ft head or 5psi air test for 15min. (OPSC 712.2)
- Water working pressure or minimum 50 psi test for 15min. (OPSC 609.4)
- Freeze protection for water piping installed outside of conditioned space (OPSC 312.6, 609.1)
- Nail plates as required (OPSC 312.9)
- Support required for DWV and water piping (OPSC 313, Table 313.3)
- Required spacing and clearance for fixtures (ORSC R307)
- Pressure/Temperature balancing valves (OPSC 505.6, 608.3)
- Pipe size for DWV and for Water (OPSC Table 702.1 and 703.2, Water Table 610.3 and 610.4)
- Shutoff valves (OPSC 606)
- Vent piping requirement (OPSC 901.2)
- Vent piping size (OPSC Table 703.2)
- Rodent proofing (OPSC 312.12)

### **Final**

- Verify and "document water pressure on the inspection slip" (OPSC 608)
- Maximum 80 psi –above will require an approved pressure regulator (OPSC 608.1)
- Minimum 15 psi –below will require means that will provide the 15psi (OPSC 608.2)
- Water Heater (OPSC Chapter 5)
- FVIR rated or elevated 18" (OPSC 507.5, 507.6, 507.8)

- Seismic strap (**OPSC 507.2**)
- Vehicle barrier (**OPSC 507.6**)
- Temperature and pressure relief valve (**OPSC 505.4, 505.5, 505.6**)
- Shutoff valve (**OPSC 606.2, 606.3, 606.5, 606.6**)
- Union within 12" of the water heater (**OPSC 609.5**)
- No PEX within 18" of the water heater (**OPSC 604.13**)
- Prohibited locations for water heater taking combustion air from the room – bedrooms, bathrooms, closets opening into a bathroom or bedroom (**OPSC 505.1**)
- Required expansion device (**OPSC 608.3**)
- Required type and installation of backflow device (**OPSC Table 603.2**)
- Required hot water (**ORSC R306.4**)
- Required location of hot water faucets and diverters shall be on the left side (**OPSC 417.5**)
- Required Max 120°F hot (**OPSC 407.3 for public lavatories**)
- Bath tubs (**OPSC 409.4 / Bathrooms and Whirlpools**)
- Showers (**OPSC 408.01**)
- Public lavs (**OPSC 407.3**)
- Required balance thermostatic mixing valves (**OPSC 4072.3, 408.3, 409.4, 410.3**)
- Showers (**OPSC 408.0**)
- Bathtubs (**OPSC 409.4**)
- Required P-traps at every fixture (**OPSC 1001.2**)
- Required only one P-trap per trap arm (**OPSC 1001.2**)
- Required fixture clearance (**OPSC 402.5 and ORSC Figure R307.1**)
- WC 15" oc from wall or similar obstructions (**OPSC 402, 402.1, 402.2, 402.3, 402.4 402.5**)
- WC 30" center to center from one fixture to the next (**OPSC 402, 402.1, 402.2, 402.3, 402.4 402.5**)
- WC 24" clear floor space (21" min. residential) (**OPSC 402, 402.1, 402.2, 402.3, 402.4 402.5**)
- Urinal 12" oc from wall or similar obstructions (**OPSC 402, 402.1, 402.2, 402.3, 402.4 402.5**)
- Urinal 24" center to center from one fixture to the next (**OPSC 402, 402.1, 402.2, 402.3, 402.4 402.5**)