

Electrical Inspection Checklist Wood-framed Residential Structures (2020 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. Address posted on site (**ORSC R110.3**)
5. 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**)
6. All works shall be completed prior the time of the inspection (**ORSC R109.1**)

Service/Rough-in inspection

Panel size:

- Panel and meter shall be the same size - 100amp, 125amp, 150amp, 200amp (**NEC 310.15**)
- Meter size (**Utility Guideline Manual**)
- Verify meter height (Power company spec book) not NEC (**Utility Guideline Manual**)
- Offsets in “Riser” pipe? (Power company spec book) not NEC (**Utility Guideline Manual**)
- Service conductor size. Verify conductor is adequate for the given ampacity above (**310.12**)
- Grounding conductor size (**NEC 250.66 Tables**)
- Proper conductor size to the “concrete encased electrode” (**NEC 250.66 B**)
- Proper attachment to “concrete encased electrode”. Is it accessible? (**NEC 250.52 (3)**)

- Ground rods? Physical protection required of grounding conductor? (Subject to physical damage? (**NEC 250.53(A-B), 250.64B**))
- Bonding conductor size. Is bonding required? Gas line or cold water needed? (**NEC 250.66**)
- All applications of “Grounding” fulfilled? (**NEC Article 250**)
- Riser pipe size or Overhead raceway properly sized? Verify PGE or Salem Electric Requirements Standards (**Utility Guideline Manual**)

Branch circuits’ inspection

- Verify the number of required circuits. Range, Dryer, AC, Kitchen circuits, Laundry circuits, Bathroom circuit, proper number of bedroom circuits (**NEC 210.52, 210.70**)
- Water heater circuit, Sump pump (**NEC 210.52 A-I**)
- Location of device boxes. Verify proper spacing of receptacles and switches. Are there 5 or more steps? Is a 3-way required for staircase? (**NEC 210.52 A1 & A2**)
- Are all of the required lighting devices installed? (**NEC 210.70 A-C**)
- All wiring made up? Switches and outlets to be stripped out and made up (**OAR 918-305-0430**)

Final inspection

- Check panel for identification (**NEC 408.4**)
- Check all GFCI’s including hydro-massage tub (**NEC 210.8A-8C**)
- Check all Arc Fault devices (**NEC 210.12A**)
- Verify all smoke detectors are installed and working, battery tabs removed (**ORSC R314& 315**)
- All appliances installed and working. If not are all wires or devices properly terminated?
- All remaining boxes closed off properly (**NEC 110.12**)
- All exterior devices in and working properly, weather proof outlets, AC disconnects, lights (**NEC 110.3 (B)**)
- Verify extension rings are installed on devices in cabinets (**NEC 110.18**)