

# Oregon Solar Installation Specialty Code

Checklist for Prescriptive Photovoltaic Installations in accordance with The Oregon Solar Installation Specialty Code (OSISC) Sections 304.9 and 305.4

## Washington County

### Department of Land Use & Transportation

#### Development Services, Building Services Section

155 N First Avenue, Ste. 350 MS 12 · Hillsboro, OR 97124-3072

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#### PROPERTY OWNER INFORMATION

Property owner name:

Installation address:

City: State: ZIP:

Structure on which modules are to be installed:

#### SITE AND ROOF PLANS

- Attach a simple site plan showing the location of the PV system in relation to buildings, structures, property lines, and, as applicable, flood hazard areas.
- System must be shown in sufficient detail to assess whether the requirements of section 304.9 or one of the exceptions have been met.
  1. Show the layout of the panels on the roof.
  2. If the panels cover more than 1000 square feet, the “General Pathway Requirements” of section 304.9.1 need to be shown on the roof plan. (Roof slope 2:12 or greater.)
  3. If the panels cover 1000 square feet or less, the following applies: (Roof slope 2:12 or greater.)
    - a) Where the array does not exceed 25% of the total roof area, a 12 inch unobstructed pathway shall be maintained along each side of any horizontal ridge.
    - b) Where the array exceeds 25% of the total roof area, a minimum of one 36 inch unobstructed pathway from ridge to eave, over a structurally supported area, must be provided in addition to a minimum 12 inch unobstructed pathway along each side of any horizontal ridge.
  4. See exceptions 2 and 3 of 304.9.1 for non-occupied accessory structures and townhouses. • The site and roof plans must be on 8.5-inch x 11-inch or larger paper.

#### STRUCTURAL INFORMATION

##### All structures:

- Is this conventional light framed wood construction?

Yes          No

- Does the structure have pre-engineered trusses?

Yes          No

##### OR

- Does structure have roof framing members spaced at 24 inches on center maximum?

Yes          No

- Is the weight of the PV modules and racking less than 4.5 pounds per square foot?

Yes          No

**\*\* Please provide a cut-sheet for the PV Panels**

- Is the roofing material metal, single layer wood shingle, or not more than two layers of composition shingle?

Yes          No

### **Standing seam metal roofs:**

- Is the metal gauge 26 or heavier?  
Yes          No
- Clamp design: Are clamps designed to withstand uplift of at least 115 pounds for clamps spaced at 60 inches on center or less or at least 75 pounds for clamps spaced at 48 inches on center or less?  
Yes          No
- Is the spacing of the clamps as measured along the seam less than or equal to 24 inches on center?  
Yes          No
- Is the roofing panel width 18-inches or greater?  
Yes          No
- Will the roofing panel attachments be at least #10 screws at 24 inches on center?  
Yes          No
- Will the roofing panels be installed over minimum ½-inch nominal wood structural panels attached to framing with 8d nails at six inches on center at panel edges and 12 inches on center field nailing?  
Yes          No

**\*\* If answer is no, on any of these requirements, the project may not be submitted using the prescriptive path. \*\***

### **ROOF DESIGN AND ATTACHMENT**

- Attach a simple structural plan showing the roof framing (rafter size, type, and spacing) and PV system racking attachment.
- System must be shown in sufficient detail to assess whether the requirements of section 305.4 have been met.
  1. Roof Structure is engineered trusses or roof framing at a spacing of 24 inches on center. The ground snow load does not exceed 50 psf and the wind loads do not exceed 95 MPH in exposure C or 105 MPH in exposures A or B.
  2. Roofing material shall be metal, single layer wood shingle or shake, or not more than (2) layers of composition shingle.
  3. Installation shall comply with Figure 305.4(1) and the combined weight of the modules and racking does not exceed 4.5 pounds per square foot. The attachments must be spaced no more than 48 inches on center in any direction. The attachments shall be spaced at no greater than 24 inches on center in any direction where:
    - a) Ground snow load exceeds 25 psf.
    - b) Located within 3 feet of a roof edge, hip, eave, or ridge or
    - c) Wind exposure is B or more and the wind speed is 95 MPH or more, or wind exposure C and wind speed is 85MPH or more.
  4. Maximum module height above roof shall be 18 inches from top of module to roof surface in accordance with Figure 305.4(1)
- **The structural plan must be on 8.5-inch x 11-inch or larger paper.**

### **WIND DESIGN**

- Does the project site exceed 95 mph in exposure C or 105 mph in exposures A or B?  
Yes          No  
**\*\*If yes, the project may not be submitted using the prescriptive path.**
- Is the module height less than 18 inches above the roof in accordance with section 305.4?  
Yes          No

### **PV MODULES**

- Please provide cut sheet to show listing and labeling of PV Modules.
- Please provide cut sheet to show listing and labeling of attachment brackets.
- Please provide a wiring diagram for the electrical permit requirements.