



Prescriptive Rooftop-Mounted Solar Photovoltaic Installation Checklist — Residential

Building department:

Use this checklist to demonstrate compliance with the prescriptive rooftop-mounted photovoltaic (PV) system installation requirements of the Oregon Residential Specialty Code. Separate electrical permits are required for these installations. Refer to OAR 918-050-0180.

PART I – PROPERTY OWNER INFORMATION

Property owner name:

Phone number:

Installation address:

City:

State: Oregon

ZIP:

Structure description:

Installer: ☐ Contractor

☐ Owner (If owner, skip to Part III)

PART II – CONTRACTOR INFORMATION

Contractor's name:

Phone number:

Email address:

BCD license #:

CCB license #:

PART III – STRUCTURAL CRITERIA

Check the appropriate boxes for each item as it applies to the project.

If "No" is selected for any item below, or if the supporting structure is a manufactured dwelling, the project **may not** be submitted using the prescriptive path.

- PV panel system and attachments will be designed to withstand applicable gravity and wind loads at the site and installed in accordance with the manufacturer's installation instructions: ☐ Yes ☐ No
- Ground snow load at the site does not exceed 70 pounds per square foot (psf): ☐ Yes ☐ No
- Wind exposure for structure is limited to Wind Exposure Category B or C: ☐ Yes ☐ No
- Structure is of conventional light-frame construction ☐ Yes ☐ No
- Supporting roof framing is one of the following: ☐ Yes ☐ No
(check one)
 - ☐ Pre-engineered trusses are spaced less than or equal to 24 inches on center (o.c.); **or**
 - ☐ Rafters are spaced less than or equal to 24 inches o.c. and framing complies with R324.4.1 Exception 1.4 through 1.6
- Roofing materials are metal or single-layer-wood shingles or shakes, or not more than two layers of composition shingle: ☐ Yes ☐ No
- Total weight of the PV panel system, including modules and racking, will not exceed 4.5 psf: ☐ Yes ☐ No
- Module height will be no more than 18 inches from the top of the module to the roof surface and comply with Figures R324.4.1(2) and R324.4.1(3) accordingly: ☐ Yes ☐ No

(continued)

PART III – STRUCTURAL CRITERIA (continued)

- PV modules or racking will be attached to the roof using one of the following methods:..... ☐ Yes ☐ No
(check one)

☐ **Attachment Method 1**

1. Direct attachment to the **roof framing or blocking; and**
2. Attachment spacing
 - a. Less than or equal to 24 inches in any direction; **or**
 - b. Greater than 24 inches and less than or equal to 48 inches in any direction where **all** of the following exist:
 1. Ground snow load is less than or equal to 36 psf.
 2. Attachments are not located within 3 feet of a roof edge, hip, eave, or ridge.
 3. Basic design wind speed
 - a. Less than or equal to 120 mph in Wind Exposure Category B; **or**
 - b. Less than or equal to 110 mph in Wind Exposure Category C.

☐ **Attachment Method 2**

1. Direct attachment to **standing seam metal roofing panels; and**
2. Attachment clamps comply with all of the following requirements:
 - a. Allowable uplift capacity of the clamps is not less than:
115 pounds, where clamp spacing is greater than or equal to 48 inches o.c.; **or**
75 pounds, where clamp spacing is less than 48 inches o.c.
 - b. Clamp spacing along a panel seam will be greater than or equal to 24 and less than or equal to 60 inches o.c.
 - c. Parallel to seam clamp spacing multiplied by the perpendicular clamp spacing will be less than or equal to 10 square feet.
3. Metal roofing panels comply with all the following:
 1. Panel thickness is minimum 26-gauge steel.
 2. Panel width is less than or equal to 18 inches.
 3. Attached with minimum #10 screws at 24 inches o.c.
 4. Installed over minimum 1/2-inch nominal wood structural panel sheathing that is fastened to framing with 8d nails at 6 inches o.c. at panel edges and 12 inches o.c. field nailing.

PART IV – PV MODULES

Manufacturer:

Model number:

Listing agency:

PART V – LOCATIONS AND PATHWAYS

Provide and attach a site plan in accordance with the municipality's submission requirements, showing the location of the proposed PV array(s) on the building(s) and the required firefighter access and escape pathways. The proposed system must be shown in sufficient detail to assess whether the location and pathway requirements of Section R324.6 will be met. (ref. <https://www.oregon.gov/bcd/codes-stand/Documents/techb-solarpv-pathways.pdf>).