



# Prescriptive Rooftop-Mounted Solar Photovoltaic Installation Checklist

## Residential and Commercial Compliance

Use this checklist to demonstrate compliance with the prescriptive photovoltaic (PV) installation requirements of the Oregon Residential Specialty Code (ORSC) and the Oregon Structural Specialty Code (OSSC). Separate electrical permits are required for installations. See OAR 918-050-0180.

### PART I – PROPERTY OWNER INFORMATION

Property owner name:		Phone number:
Installation address:		
City:	State: Oregon	ZIP:
Structure type: <input type="checkbox"/> ORSC governed dwelling or accessory structure <input type="checkbox"/> OSSC governed commercial or apartment building <input type="checkbox"/> Other:		
Installer: <input type="checkbox"/> Contractor <input type="checkbox"/> 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

#### Roof structure requirements

If “No” is selected for any item in Part III, or if the supporting structure is a manufactured dwelling, the project **may not** be submitted using the prescriptive path.

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

- The Risk Category is I or II for OSSC governed structures (OSSC Section 1604.5): .....  Yes  No
- The structure is of conventional light-frame construction: .....  Yes  No
- The supporting roof framing is one of the following: .....  Yes  No  
 (check one)  Preengineered trusses spaced ≤ 24 inches o.c.; **or**  
 Rafters spaced ≤ 24 inches o.c. **and**  
 for ORSC governed structures spans comply with OSSC Section 3111.3.5.3 Items 1.2.4 and 1.2.5 **or**  
 for OSSC governed structures spans comply with OSSC Section 3111.3.5.3 Items 1.1.5 and 1.1.6
- The ground snow load does not exceed the following: .....  Yes  No  
 (check one)  70 psf for ORSC governed structures, **or**  50 psf for OSSC governed structures
- The basic design wind speed does not exceed the following: .....  Yes  No  
 (check one)  120 mph in Wind Exposure Category C for OSSC governed structures; **or**  
 135 mph in Wind Exposure Category B for OSSC governed structures; **or**  
 135 mph in Wind Exposure Category B or C for ORSC governed structures
- The roofing materials are metal, single-layer wood shingle or shake, or not more than two layers of composition shingle: .....  Yes  No
- The module height will be no more than 18 inches from the top of the module to the roof surface and will comply with Figures 3111.3.5.3(2) and 3111.3.5.3(3): .....  Yes  No

**PART III – STRUCTURAL CRITERIA (continued)**

**Loading requirements**

Check the appropriate boxes for each item associated with the selected attachment method.

- Attachment Method 1:** PV modules or racking will be attached directly to the **roof framing or blocking**:
  - The combined weight of PV modules and racking is not more than 4.5 psf: .....  Yes  No
  - The spacing of PV modules or racking attachments complies with the following: .....  Yes  No
    - Attachment spacing  $\leq$  24 inches in any direction; **or**
    - Attachment spacing  $>$  24 inches and  $\leq$  48 inches in any direction where **all** of the following exist:
      1. Ground snow load  $\leq$  36 psf.
      2. Attachments not located within 3 feet of a roof edge, hip, eave, or ridge.
      3. Basic design wind speed  $\leq$  120 mph in Wind Exposure Category B **or**  
 $\leq$  110 mph in Wind Exposure Category C.
  
- Attachment Method 2:** PV modules or racking will be attached directly to **standing seam metal panels**:
  - The combined weight of PV modules and racking is not more than 4.5 psf: .....  Yes  No
  - The clamps comply with all the following requirements: .....  Yes  No
    1. The allowable uplift capacity complies with the following:
      - Not less than 115 pounds where clamp spacing is  $\geq$  48 inches o.c. and
      - Not less than 75 pounds where clamp spacing is  $<$  48 inches o.c.
    2. The spacing along a panel seam will be  $\geq$  24 and  $\leq$  60 inches o.c.
    3. The parallel to seam clamp spacing multiplied by the perpendicular clamp spacing will be  $\leq$  10 sq. ft.
  - The metal roofing panels comply with the following requirements: .....  Yes  No
    1. Panel thickness is a minimum 26 gauge steel.
    2. Panel width is  $\leq$  18 inches.
    3. Attached with at least #10 screws at 24 inches o.c.
    4. Will be installed over minimum 1/2-inch nominal wood structural panel sheathing that is fastened with 8d nails at 6 inches o.c. at panel edges and 12 inches o.c. field nailing.

**PART IV – ROOF FRAMING PLAN**

**Roof design requirements**

Provide a simple plan showing the roof framing members (type, size and spacing) and PV system racking attachment points in accordance with the local municipality’s requirements. The proposed system must be shown in sufficient detail to assess whether the prescriptive installation requirements of Section 3111.3.5.3 will be met.

**PART V – PV MODULES**

Manufacturer:

Model number:

Listing agency:

**PART VI – LOCATIONS AND PATHWAYS**

**Locations and pathway requirements**

Provide a simple plan in accordance with the municipality’s requirements showing the location of the proposed PV array(s) on the building(s) and fire fighter access and escape pathways. The proposed system must be shown in sufficient detail to assess whether the location and pathway requirements of Sections 3111.3.4.1 through 3111.3.4.8 will be met.