

## Prescriptive Rooftop-Mounted Solar Photovoltaic Installation Checklist — Commercial

## **Building department:**

Use this checklist to demonstrate compliance with the prescriptive rooftop-mounted photovoltaic (PV) system installation requirements of the Oregon Structural 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:			
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.  • Structure is Risk Category I or II (Section 1604.5):			
<ul> <li>Basic design wind speed does not exceed the following (check one)         <ul> <li>120 mph in Wind Exposure Category C; or</li> <li>135 mph in Wind Exposure Category B</li> </ul> </li> <li>Roofing materials are metal, single-layer-wood shingle not more than two layers of composition shingle:         <ul> <li>Total weight of the PV panel system, including module will not exceed 4.5 psf:</li> <li>Module height will be no more than 18 inches from the and comply with Figures 3111.3.5.3(2) and 3111.</li> </ul> </li> </ul>	es or shakes, or es and racking, et top of the module to	Yes No Yes No the roof surface	

(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 <b>roof framing or blocking; and</b>		
2. Attachment spacing		
a. Less than or equal to 24 inches in any direction; <b>or</b>		
b. Greater than 24 inches and less than or equal to 48 inches in any direction where <b>all</b> 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.	)	
<ul> <li>Parallel to seam clamp spacing multiplied by the perpendicular clamp spacing will be less than of equal to 10 square feet.</li> </ul>	r	
3. The metal roofing panels comply with all the following requirements:		
a. Panel thickness is minimum 26-gauge steel.		
b. Panel width is less than or equal to 18 inches.		
c. Attached with minimum #10 screws at 24 inches o.c.		
d. Installed over minimum ½-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 – ROOF FRAMING PLAN		
Provide and attach 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 submittal 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		
Provide and attach a site plan in accordance with the municipality's submittal 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 Sections 3111.3.4.1 through 3111.3.4.8 will be met. (ref. <a href="https://www.oregon.gov/bcd/codes-stand/Documents/techb-solarpv-pathways.pdf">https://www.oregon.gov/bcd/codes-stand/Documents/techb-solarpv-pathways.pdf</a>).