

All non-prescriptive solar installations shall be based on the valuation of the structural elements for the solar for the solar panels, including racking, mounting elements, rails, and the cost of labor to install. The cost of the solar electrical equipment, including collector panels, and inverters shall be excluded from the permit valuation. The valuation shall be applied to the structural permit fee schedule. The standard plan review fee will be added to the permit based on OAR 918-050-0180

City of Tualatin Building Division

10699 SW Herman Rd Tualatin, Oregon 97062 Main: 503.692.2000 Inspection: 503.691.3040 www.tualatin.gov/building

## Instructions:

- 1. Obtain an electrical permit from Washington County. A copy of the permit will need to be uploaded to the solar application to show compliance.
- 2. Apply for a City of Tualatin solar application through eTrakit and pay the required fees.
- 3. Complete the attached questionnaire to verify if the project qualifies for an over the counterpermit. If the project qualifies, please upload a copy of this to the application in PDF format.

## Note: If your project does not qualify for the prescriptive path, upload Oregon stamped engineered calculations and connection details to the permit for plan review along with the items in step four.

- 4. Upload to the application: (All documents need to be in PDF format, no special characters in the name of the file.)
  - a. A scaled and dimensioned site drawing showing;
    - i. The location of the PV system in relation to other structures, property lines and flood hazard areas.
    - ii. Typical roof framing members.
    - iii. The layout of the PV system on the structure.
    - iv. Firefighter access/egress paths.
    - v. The location of all rooftop plumbing vents, plumbing drains, attic vents, dryer vents, skylights or mechanical equipment.
    - vi. The location of emergency egress openings.
  - b. A copy of the manufacturer's installation instructions.
  - c. A copy of the manufacturer's specifications (cut sheets) for *roof installed* equipment (i.e. racking, micro-inverters, PV modules, etc.)
- 5. After the solar permit has been issued, complete the PV system installation per manufacturer's installation instructions and OSSC Section 3111.
- 6. Schedule and pass a final electrical inspection with Washington County. The approved stamped plan set will need to be onsite for inspection.
- Schedule and pass a final building inspection with the City of Tualatin. The approved stamped plan set will need to be onsite for inspection. The final electrical inspection will need to be approved prior to the building final.

## Photovoltaic Questionnaire

	Project Information		
Installation Company Name:		Contact Name:	
Contact Phone Number:		Contact Email:	
Site Address:			

	Project Phot	ovoltaic Modules	
Manufacturer:			
Model number:			
Listing agency and number	Panels & Modules -	UL 1703	UL 61730-1 and UL 61730-2
(Select one):	Inverters	UL1741	Other (specify)

## If the structure in question is a manufactured structure, engineering is required.

Structural Information
Is the project site building Risk Category I or II? (See OSSC Table 1604.5 for breakdown) (OSSC 3111.3.5.3) Yes No
Is the existing supporting roof framing conventional light framed wood construction or pre-engineered trusses? (OSSC 3111.3.5.3, 1.1.4) Yes No
Are the roof's framing members spaced at 24 inches on center or less? (OSSC 3111.3.5.3, 1.1.4) Yes No
If framing <b>does not</b> consist of trusses; (OSSC 3111.3.5.3 # 1.1.5 and 1.1.6, 1.2.4, 1.2.5) Do the ceiling joists comply with OSSC sections 2308.7.1, 2308.7.2 and 2308.7.3 for commercial structures, or R802.4.1, R802.5.1 and R802.5.2 for residential structures? Yes No
Where rafter spans are based on purlins provided between the ridge and eave, are the purlins supported by braces to bearing partitions in accordance with section 2308.7.7 or R802.4.5 and Figure 3111.3.5.3.1(1)?
If the ceiling joists do not run parallel to rafters, are the rafters tied across with rafter ties complying with section 2308.7.3.1? Yes No
Do the existing valley and hip rafters comply with section 2308.7.3 or R802.4.1 and are they supported at the ridge by a brace to a bearing partition? Yes No
Where roof rafters require purlins between the ridge and eave to comply with the rafter span tables, are the hip and valley rafters supported by a brace to a bearing partition? Yes No
Is the roofing material: (OSSC 3111.3.5.3, #2) Metal Single layer of wood shingles Two or less layers of composition shingles, or No, None of these

Is the combined weight of photovoltaic modules and racking less than 4.5 pounds per square foot? (OSSC 3111.3.5.3, #4) Yes No
Are the photovoltaic modules and racking attached directly to the roof framing or blocking? (OSSC 3111.3.5.3, #5) Yes No
Are the attachments for the for photovoltaic modules and racking spaced not more than 48 inches on center in any direction? (OSSC 3111.3.5.3, #5) Yes No
Will the PV system racking attachment spacing be 24 inches on center or less if within 3 feet of a roof edge, hip, ridge or eave? (OSSC 3111.3.5.3, #5 Exp 1.2) Yes No
Is the maximum height of the panels 18 inches or less above the roof and in accordance with figures 3111.3.5.3 and 3111.3.5.3(3)? (OSSC 3111.3.5.3, #6) Yes No
Will the installed PV system meet all the requirements of OSSC 3111.3.4.8 for fire fighter access and escape? (OSSC 3111.3.5.3, #7) Yes No
Additional questions only if structure has a <b>standing seam</b> metal roof:
Are the clamps designed with an allowable uplift capacity of at least 115 pounds when spaced greater than 48 inches on center or less or at least 75 pounds for clamps spaced at 48 inches on center or less? (OSSC 3111.3.5.3 Exp 5 #2.1) Yes No
(OSSC 3111.3.5.3 Exp 5 #2.2)
Is the spacing of the clamps as measured along the seam between 24 inches and 60 inches on center? (OSSC 3111.3.5.3 Exp 5 #2.2) Yes No Is the spacing of the clamps perpendicular to the seam less than 10 square feet measured by multiplying the measurements along the seam with those perpendicular to the seam? (OSSC 3111.3.5.3 Exp 5 #2.2) Yes No
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If "no" to any of these questions, the project may not be submitted using the prescriptive path.