



CLARK COUNTY
WASHINGTON

COMMUNITY DEVELOPMENT
BUILDING SAFETY

Rooftop-mounted Residential Solar Photovoltaic Systems

Rev 4.10.19

Working together. Securing your safety. Protecting your investment.

Project Information

Applicant Name: _____

Project Address: _____

Permit Number: _____

PV system description, including manufacturer and model number of major equipment:

Use this checklist to determine if your project qualifies for express permitting.

	Yes	No
1. PV system is designed and proposed for a detached single-family house or detached accessory structure that is in compliance with applicable codes.	<input type="checkbox"/>	<input type="checkbox"/>
2. The installation shall meet the requirements of the 2015 IRC and Washington State Amendments.	<input type="checkbox"/>	<input type="checkbox"/>
3. The photovoltaic panels and modules and supporting structure shall be constructed of noncombustible materials or fire-retardant treated wood equivalent to that required for the roof construction.	<input type="checkbox"/>	<input type="checkbox"/>
4. The installation shall comply with the manufacturer's instructions. Provide with application.	<input type="checkbox"/>	<input type="checkbox"/>
5. Rooftop is made from lightweight material such as a single layer of composition shingles, metal roofing, or cedar shingles. All Structures: Is this conventional light framed wood construction? <input type="checkbox"/> <input type="checkbox"/> Does the structure have pre-engineered trusses? <input type="checkbox"/> <input type="checkbox"/> OR Does structure have roof framing members spaced at 24 inches on center minimum? <input type="checkbox"/> <input type="checkbox"/> Is the weight of the PV modules and racking less than 4 pounds per square foot? <input type="checkbox"/> <input type="checkbox"/> Is the roofing material metal, single-layer wood shingle or not more than two layers of composition shingle? <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Yes	No
Standing seam metal roofs:		
Is the metal gauge 26 or heavier?	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>
Is the spacing of the clamps as measured along the seam less than or equal to 24 inches on center?	<input type="checkbox"/>	<input type="checkbox"/>
Is the roofing panel width 18 inches or less?	<input type="checkbox"/>	<input type="checkbox"/>
Will the roofing panel attachments be at least #10 screws at 24 inches on center?	<input type="checkbox"/>	<input type="checkbox"/>
Will 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?	<input type="checkbox"/>	<input type="checkbox"/>
<i>If no, on any of these requirements, the project may not be submitted using the prescriptive path.</i>		
6. Roof and wall penetrations shall be flashed and sealed to prevent entry of water, rodents, and insects.	<input type="checkbox"/>	<input type="checkbox"/>
7. The PV system is designed for Clark County's wind speed of 135, Exposure B, and will be installed per the manufacturer's specifications.	<input type="checkbox"/>	<input type="checkbox"/>
8. Total dead load of modules, supports, mountings, raceways and all other appurtenances weigh no more than four pounds per square foot. Enter total dead load of system (lbs./ft ²):	<input type="checkbox"/>	<input type="checkbox"/>
9. Modules are mounted no higher than 18" above the surface of the roofing to which they are affixed.	<input type="checkbox"/>	<input type="checkbox"/>
10. Modules on pitched roofs do not exceed the highest point of the roof unless approved by the local jurisdiction.	<input type="checkbox"/>	<input type="checkbox"/>
11. Supports for solar modular are installed to spread the dead load across as many roof-framing members as necessary so that no point load exceeds 50lbs and the connection points are spaced not more than 48" on center in any direction.	<input type="checkbox"/>	<input type="checkbox"/>
12. All required electrical permit(s), review, and inspection(s) must be obtained from Washington State Labor and Industries administer the electrical code.	<input type="checkbox"/>	<input type="checkbox"/>
13. PV modules are listed and labeled with a fire classification in accordance with UL 1703.	<input type="checkbox"/>	<input type="checkbox"/>
14. See R324.7 for access and pathways. Provide roof plan.	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

If you answered *yes* to all of the above questions, the project qualifies for express permitting (7-10 day review).

Submittal requirements

Submit applications at the Clark County Permit Center located at 1300 Franklin Street, Vancouver WA 98660.

Submittals must include manufacturer's specifications and technical information along with roof plan, mounting information, and other supporting documents.

Submittals that do not meet the loading and mounting requirements of this checklist will require engineering.

- Provide structural calculations and structural details for the system, connections and roof framing.
- The calculations and details must be shown in sufficient detail to demonstrate compliance with the design requirements of WAC 51-51 , Section R324—Solar energy systems.
- The structural details must be scaled at not less than 1/4" per foot.

Submittals that do not meet all of the requirements of this checklist will not be accepted.

Permits and fees

For ground mounted units or panels mounted on existing buildings, separate RES permits are required. Fees are based on construction value.

In new construction, the solar panels are included in the NHC or RES permit and fee.

For additional information, call the Permit Center at 564.397. 4078.