



Small Residential Rooftop Solar PV Systems ≤ 10 kW Express Eligibility Checklist

GENERAL REQUIREMENTS

- A. System size is 10 kW AC CEC rating or less Y N
- B. System is roof-mounted on existing permitted one- or two-family dwelling or accessory structure Y N
- C. System will not exceed the maximum legal building height Y N
- D. No other existing systems are on the roof Y N
- E. Development Services permit application is completed and attached Y N
- F. Solar PV Plan and supporting documentation is completed and attached Y N
- G. Please indicate the type of electrical plans being submitted Std Micro Std Central Custom

ELECTRICAL REQUIREMENTS

- A. Using existing service panel rated 100 AMPS or greater Y N
- B. No additional load panel is proposed. Y N
- C. No battery storage system is proposed Y N
- D. System is interconnected to a single-phase AC service panel of nominal 120/220 Vac with a bus bar rating of 225 A or less Y N
- E. System is connected to the load side of the utility distribution equipment and the sum of the ampere ratings of overcurrent devices on circuits supplying power to a busbar or conductor does not exceed 120% of the rating of the busbar or conductor Y N
- F. Proposed installation is not a line side tap Y N
- G. The service panel is not center fed Y N
- H. The proposed circuit conductors are #10 AWG and less than or equal to 100-feet Y N
- I. All wiring system and equipment are located outside of the premise Y N
- J. Metallic cold-water grounding for the system will be provided within 5-feet of water service entry to the residence and shall be accessible Y N

FIRE SAFETY REQUIREMENTS

- A. A diagram of the roof layout of all panels, modules, clear access pathways and approximate locations of electrical disconnecting means and roof access points are completed and attached. Y N
- B. System is a Fire Classification "C" rating Y N
- C. All required markings and placards will be provided with engravable plastic or phonic resin plates Y N
- D. System diagram will be placed at the main panel Y N

STRUCTURAL REQUIREMENTS

ROOF CHECKS

- A. Visual Review/Contractor's Site Audit of Existing Conditions:
 - 1) Is the roof a single roof without a reroof overlay? Y N

2) Does the roof structure appear structurally sound, without signs of alterations or significant structural deterioration or sagging as shown in Figure 1? Y N

B. Roof Structure Data:

- 1) Measured roof slope (e.g. 6:12): _____:12
- 2) Type of roof framing (rafter or Manufactured truss): Rafter Truss
- 3) Measured rafter spacing (center-to-center): _____"
- 4) Measured rafter size (e.g. 13/4 x 33/4, not 2x4): _____" x _____"
- 5) Measured rafter horizontal span (see Figure 4*): _____' - _____"
- 6) Horizontal rafter span per Table 2*:
_____ " - _____ "
- 7) Is measured horizontal rafter span less than Table 2* span? Y N

SOLAR ARRAY CHECKS

- A. Flush-mounted Solar Array:
 - 1) Is the plane of the modules (panels) parallel to the plane of the roof? Y N
 - 2) Is there a 2" to 10" gap between underside of module and the roof? Y N
 - 3) Modules do not overhang any roof edges (ridges, hips, gable ends, eaves)? Y N
- B. Do the modules plus support components weigh no more than 4 psf for photovoltaic arrays? Y N
- C. Does the array cover no more than half of the total roof area (all roof planes)? Y N
- D. Are solar support component manufacturer's project-specific worksheets, tables completed? Y N
- E. Is a roof plan of the module and anchor layout attached? See Figure 2.* Y N
- F. Downward Load Check (Anchor Layout Check):
 - 1) Proposed anchor horizontal spacing. See Figure 2.* _____' - _____"
 - 2) Horizontal anchor spacing per Table 1.* _____' - _____"
 - 3) Is proposed anchor horizontal spacing equal to or less than Table 1* spacing? Y N
- G. Wind Uplift Check (Anchor Fastener Check):
 - 1) Anchor fastener data (see Figure 3*):
 - a. Diameter of lag screw, hanger bolt or self-drilling screw: _____"
 - b. Embedment depth of rafter: _____"
 - c. Number of screws per anchor (typically one): _____
 - d. Are 5/16" diameter lag screws with 2.5" embedment into the rafter used, OR does the anchor fastener meet the manufacturer's guidelines? Y N

*Refer to the website at <http://www.lbds.info/solarpermits>.

SUMMARY:

- A. These criteria are intended for express solar permitting process by checking "Y" to all above questions.
- B. If any items are checked "N," revise design to fit within Eligibility Checklist, otherwise permit application may go through standard process.

Job Address: _____ Permit #: _____
 Contractor/Installer: _____ License # & Class: _____
 Signature: _____ Date: _____ Phone #: _____

To request this information in an alternative format or to request a reasonable accommodation, please contact the issuing department at longbeach.gov/lbds and 562.570.3807. A minimum of three business days is requested to ensure availability; attempts will be made to accommodate request with shorter notice.