



SMALL ROOF TOP SOLAR WATER HEATING SYSTEMS FOR ONE-AND TWO-FAMILY DWELLINGS OR ACCESSORY STRUCTURES 30 KILOWATTS THERMAL OR LESS

GENERAL REQUIREMENTS

- System size is 30 kilowatts thermal or less.
- The solar array is roof-mounted on a one- or two-family dwelling or accessory structure.
- The solar collectors will not exceed the maximum legal building height
- Solar domestic water heating system is certified by an accredited listing agency.
- Manufacture's specifications and installation requirements are included.
- A system schematic is included.
- A list of all major components that match the system schematic is included.
- Documentation shows that the heat transfer fluid is either water or non-toxic fluid.
- A permit application is completed and attached.

PLAN AND SYSTEM REQUIREMENTS

- Three complete sets of the following plans and permit documents:
 - Manufacturers cut sheets and installation manuals for all equipment to be used for the project. These documents can be separated from the plans, but the equipment submittal shall be specific to this project, identified by the applicant and highlighted with all ratings required by the current California Electrical Code.
 - Complete and accurate system schematic including pipe sizing, all equipment and pumps with associated electrical components.
 - Roof Plan showing arrangement of panels with setbacks to roof edge.
 - All current installation and data sheets for the mounting and installation of the panels.

Mechanical, Electrical, and Plumbing Requirements

- Temperature protection is provided for all waterlines on rooftop.
- A standard, isometric single-line diagram is provided which includes details that show the components of the solar collectors that interface with the existing/new plumbing

Structural Requirements

- Completed Structural Criteria and supporting documentation is attached
- Roof structure:
- Roofing material listed on plans.
 - Roof members are stated with type, size, span, and spacing.
 - Conventional framing or pre-engineered plant manufactured trusses on a legally constructed single-family dwelling, garage, or accessory structure.

- It is understood that the County may require engineering for any roof system regardless of the type of construction.

Building Safety Requirements

- Clear access pathways are provided by the California Residential Code.
- Fire classification of the system is to be provided.
- All required markings and labels are provided.
- A diagram of the roof layout showing all collectors, roof-mounted system components, clear access pathways, and the location of all system components is attached.
 - Roof plan must include required fire clearances, fire access and pathways per California Residential Code.

Any field changes or any deviation from the approved plans will require revisions to be submitted for review and approval.