



Free Hot Water engineers will require the following checklist of information in order to create accurate and complete design, engineering, and permit drawings for your solar thermal project.

#### **SITE LOCATION:**

- Building address
- The year in which the building was built
- Number of floors
- Locations of any buildings or trees that may cast shade on panels:
- Building's footprint with dimensions
- If storage tanks are to be placed outdoors, we will need the dimensions of the area where tanks are to be located (adjacent structures, etc.)
- Please provide images of the building from the side view

#### **ROOF PLAN:**

- Roof height
- Roof dimensions
- Roof slopes (for example, 4:12), hips, peaks and valleys
- Locations & footprint dimensions of all rooftop equipment to be avoided (hvac, vents, skylights, etc.)
- Please identify any rooftop equipment that may cast shade on solar panels
- Roof framing information (size and locations of roof framing members, roof deck type, etc.)
- Please provide images of the roof section where the collectors are going to be installed.

#### **IF STORAGE TANKS ARE TO BE LOCATED INDOORS:**

- Plan dimensions of all walls outlining mechanical room
- Location and size of all wall openings (doors, windows, louvers, etc.)
- Location and size of all mechanical equipment to remain (boilers, pumps, tanks, machinery, washers, dryers, wall-mounted equipment, etc.)
- If tanks will be mounted on an existing slab, we will need slab information (depth, reinforcing, etc.)
- Call out pipe diameter of city water inlet and domestic hot water outlet to the building
- Ceiling height in order to ensure that the room's height is adequate for tank clearance

#### **IF REQUIRED BY BUILDING DEPARTMENT:**

- Please provide the elevation view(s) of building (with dimensions, or in a scalable format)

#### **INTERNAL CONTROLS**

- Do the controls need to be tied into the building controls or can they operate independently?

**If you have questions about any of the above, please contact us:**

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**Office hours:** Monday through Friday: 8am to 5pm (U.S. Pacific Time)