

**EXPEDITED SOLAR
BUILDING PERMIT**

**WKS1
Structural Worksheet**

If the array is roof mounted:

This section is for evaluating roof structural members that are site built. This includes rafter systems and site built trusses. Manufactured truss and roof joist systems, when installed with proper spacing, meet the roof structure requirements covered in item 2 below.

1. Roof construction: Rafters Trusses Other: _____
2. Describe site-built rafter or site-built truss system.
 - a. Rafter Size: _____ inches
 - b. Rafter Spacing: _____ inches
 - c. Maximum unsupported span: _____ feet, _____ inches
 - d. Are the rafters over-spanned? (See the IRC Span Tables document)
 Yes No
 - e. If **yes**, complete the rest of this section.
3. If the roof system has
 - a. over-spanned rafters or trusses,
 - b. the array over 5 lbs/ft² on any roof construction, or
 - c. the attachments with a dead load exceeding 45 lbs per attachment;

it is recommended that you provide one of the following:

- (i) A framing plan that shows details for how you will strengthen the rafters using the supplied Span Tables document.
- (ii) Confirmation certified by a design professional that the roof structure will support the array.

If the array is ground mounted:

1. Show array supports, framing members, and foundation posts and footings.
2. Provide information on mounting structure(s) construction. If the mounting structure is unfamiliar to the local jurisdiction and is more than six (6) feet above grade, it may require engineering calculations certified by a design professional.
3. Show detail on module attachment method to mounting structure.