

CERTIFICATE OF INSTALLATION		CF2R-PV-01-E
Photovoltaic System Verification		(Page 1 of 2)
Project Name:	Enforcement Agency:	Permit Number:
Dwelling Address:	City	Zip Code

*The installer is required to fill out this form for all newly installed Photovoltaic Systems (PV) when the CF-1R shows PV as required for compliance. Only single family residences and townhouses may install a PV system for compliance purposes. The performance compliance approach must be utilized and the project must be located in climate zones 9-15. Procedures for verifying compliance are described in Reference Residential Appendix RA4.6*

<b>A. NSHP</b>	
1.	This PV system receiving financing under the New Solar Homes Partnership (NSHP) program.
2.	The PV system is receiving financing under the New Solar Homes Partnership (NSHP) and it meets all requirements of the NSHP Guidebook, including, but not limited to, HERS verification of the PV system and all energy efficiency measures.
3.	By signing below, the installer certifies that these requirements are met.

<b>B. Non-NSHP</b>	
4.	The make and model numbers of the PV modules and inverters are listed at <a href="http://www.gosolarcalifornia.ca.gov/links/equipment_links.php">http://www.gosolarcalifornia.ca.gov/links/equipment_links.php</a> and a print out from this site showing the make and model numbers is attached.
5.	The PV system nameplate DC power rating, measured under Standard Test Conditions is no less than 2000 watts.
6.	The PV array is installed at a slope no greater than: <ul style="list-style-type: none"> <li>• 2.4 degrees or 5:12 pitch from the horizontal</li> <li>• 30.3 degrees or 7:12 pitch from the horizontal and with an orientation between 110 degrees and 270 degrees of true north.</li> </ul>
7.	The PV system is equipped with either: <ul style="list-style-type: none"> <li>• a system energy production meter that is integral to the inverter,</li> <li>• a standalone system energy production meter,</li> <li>• an energy production monitoring system.</li> </ul>
8.	The solar zone is free from roof penetrations, and obstructions such as vents, chimneys, architectural features, or roof mounted equipment as explained in the Residential Manual.
9.	By signing below, the installer certifies that these requirements are met.

<b>DOCUMENTATION AUTHOR'S DECLARATION STATEMENT</b>	
1. I certify that this Certificate of Installation documentation is accurate and complete.	
Name:	Signature:
Company:	Date:
Address:	CEA or CEPE or HERS Certification # If Applicable:
City/State/Zip:	Phone:
<b>RESPONSIBLE PERSON'S DECLARATION STATEMENT</b>	

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1. I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for construction, or an authorized representative of the person responsible for construction (responsible person).
3. I certify that the installed features, materials, components, or manufactured devices identified on this certificate (the installation) conforms to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcement agency.
4. I reviewed a copy of the Certificate of Compliance (CF1R) approved by the enforcement agency that identifies the specific requirements for the installation. I certify that the requirements detailed on the CF1R that apply to the installation have been met.
5. **I will ensure that a completed, signed copy of this Certificate of Installation shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a signed copy of this Certificate of Installation is required to be included with the documentation the builder provides to the building owner at occupancy.**

Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)

Responsible Person's Name:

Responsible Person's Signature:

CSLB License:

Date Signed:

Position With Company (Title):

### Installer Instructions

1. Determine if the PV system is receiving financing under the New Solar Homes Partnership (NSHP) program.
2. If yes then go to box #3 and fill out the NSHP Section. If no then go to box #5 and fill out the Non-NSHP Section.
3. For systems receiving financing under HSHP.
4. In the yes box the installer certifies that the requirements in the above box have been met. Then go to end of form and sign signature block.
5. Li

#### 7.3.3 Shading.

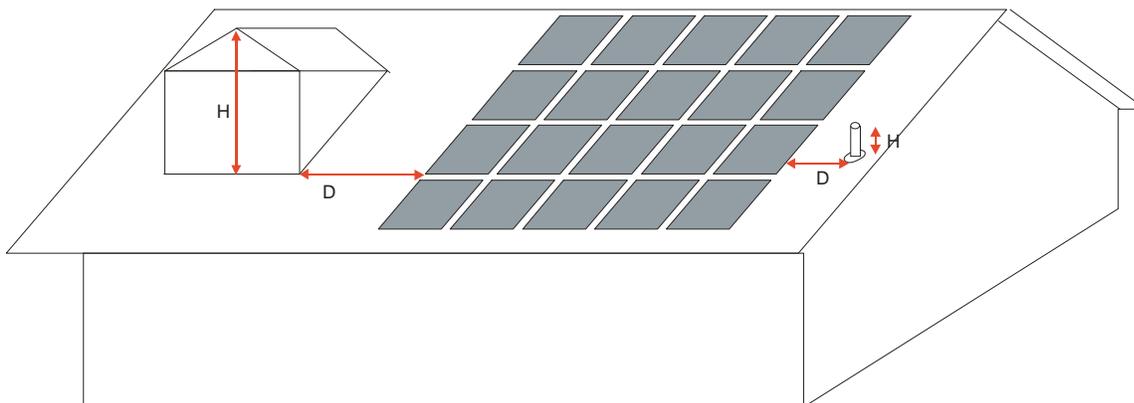
§110.10(b)3

For both single family residences and low-rise multi-family buildings, the solar zone shall be free from roof penetrations and shall not have any obstructions such as vents, chimneys, architectural features, or roof mounted equipment located in the solar zone. This requirement is so that the solar zone remains clear and open for the future installation of a solar energy system.

For both single family residences and low-rise multi-family buildings, any obstruction, located on the roof or any other part of the building, that projects above the solar zone shall be located at a sufficient horizontal distance away from the solar zone, in order to reduce the resulting shading of the solar zone. For each obstruction, the horizontal distance (“D”) from the obstruction to the solar zone shall be at least two times the height difference (“H”) between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone.

$$D \geq 2 \times H$$

**Figure 7.1 Artistic Depiction of “H” and “D”**



Source: California Energy Commission

Any obstruction oriented north of all points of the solar zone is not subject to these requirements. Any obstruction which is not located on the roof or another part of the building, such as landscaping or a neighboring building, is not subject to these requirements.