



Town of Camp Verde

Community Development Department – Building Division

◆ 473 S. Main Street, Suite 108 ◆ Camp Verde, Arizona 86322 ◆

◆ Telephone: 928.554.0050 ◆ www.campverde.az.gov ◆

COMMERCIAL PHOTOVOLTAIC (GROUND/ROOF MOUNT) PERMIT APPLICATION

In order to process a commercial solar permit application, the following information must be submitted:

- Completed Application Packet** - including project information, property information, property owner information, applicant information, designation of agent, contractor information, plot plan sketch and *if applicable* a request for temporary electric service and soils classification waiver.
Please Note: All contractors must have a valid ROC License and Town Issued Business License.
- One (1) Set of Electronic PDF Construction Documents (Plans)**
- Three (3) Sets Of Construction Documents (Plans)**
 - Architectural Plans** – Shall Include and Be Designed and Sealed by an Arizona Registered Design Professional (As Applicable).
 - Plans must be submitted on a minimum of 8 ½” x 11” size paper. Plans shall be legible and easy to read, and of sufficient clarity to indicate the location, nature and extent of the work proposed.
 - Cover Sheet** – Including The Following Information:
 - Contacts (Principal, Company Name, Address & Phone Number)
 - Parcel Number, Site Address, Owners Name, Address and Phone Number
 - Sheet Index and Project Data (Including Codes Referenced, Zoning, Use, Occupancy, Building Height, Construction Type, Square Footages, Building Area, Setbacks, Sprinklers, etc.)
 - Site Plan** - Including An 8.5” x 11” Plot Plan Drawn To Scale Or Dimensioned Indicating The Following:
 - Assessor’s Parcel Number and Project Address
 - Scale Used (May Be Engineer Or Architect’s Scale)
 - Direction of North
 - Parcel Diagram (Including Property Lines and Dimensions)
 - Label front of property.
 - Label adjacent streets or alleys.
 - Indicate location and dimensions of easements that apply with proof of legal access.
 - Indicate ingress/egress (driveway locations).
 - Indicate existing topographical contours (solid line) and proposed contours (dashed line).
 - Indicate the location of any terrain features that affect placements including washes, creeks or ditches within twenty (20) feet of the building site.
 - Indicate dimension and setbacks of all buildings to property lines and between new and existing structures.
 - Indication location of septic tank and leach lines (including dimensions, size and setback or distance from proposed building).
 - Indicate location of well.
 - Indicate location of propane tanks (including dimensions, size and setback or distance from proposed building).
 - Indicate any required cut and fills and cubic yards of each.
 - Detailed Site Plan** – Including Existing & Proposed Arrays (Include Dimensions Of Arrays, Distance Between Arrays, Distance From Ridge/Eaves, Distance From Array To Property Lines, etc.)
 - Indicate Location Of All Proposed Equipment (Including Panels, J-Boxes/Combiner Boxes, Conduit, Disconnects, Meters, etc.)
 - Foundation Plan** – Including Section Of Footing & Foundation (If Applicable)
 - Framing Plan** – Including Cut Sections Detailing Roof Framing & Provide Roof Load/Uplift Calculations (If Applicable)
 - Electrical Plan** – Including One and Three Line Wiring Diagrams & Load Calculations
 - Equipment Specifications/Manufacturer’s Installation Manuals** – Include Equipment Specification Sheets With UL Listing Information and/or Manufacturer’s Installation Manual On All System Components.
- Two (2) Copies of Engineered Soils Report** – One (1) Copy Provided Must Be Original Wet Seal. (If Applicable)
- Three (3) Sets of Structural Calculations** – (If Applicable)
 - Shall Include and Be Designed and Sealed by an Arizona Registered Design Professional.
- Deposit** will be collected upon submittal of application in accordance with the current adopted fee schedule.

Note: Additional Information May Be Required As Determined By The Building Official. A Separate Permit Will Be Required For All Deferred Submittal Items.

AN INCOMPLETE APPLICATION WILL CAUSE YOUR PERMIT TO BE DELAYED

Note: The Following Approvals May Be Required Before a Commercial Building Permit Is Issued:

Camp Verde Building Department, Camp Verde Planning & Zoning Department, Camp Verde Public Works Department, Camp Verde Wastewater Division, Camp Verde Water, Camp Verde Fire District, Yavapai County Environmental Services (Submit Plans Directly to Yavapai County Environmental Services for approval), Yavapai County Flood Control, Yavapai County Health Services – (Submit Plans Directly to Yavapai County for Approval), Arizona Department of Transportation – ADOT (Submit Plans Directly to ADOT for Approval), Arizona Department of Environmental Quality – ADEQ (Submit Plans Directly to ADEQ for Approval), Arizona Public Service (APS) – (Submit Plans Directly to APS for Approval)

Note: 9-495. Arizona Revised Statute In any written communication between a city or town and a person, the city or town shall provide the name, telephone number and email address of the employee who is authorized and able to provide information about the communication if the communication does any of the following:

1. Demands payment of a tax, fee, penalty fine or assessment;
2. Denies an application for a permit or license that is issued by the city or town; or
3. Requests corrections, revisions or additional information or materials needed for approval of any application for a permit, license or other authorization that is issued by the city or town.

An employee who is authorized and able to provide information about any communication that is described above shall reply within five (5) business days after the city or town receives that communication.





Town of Camp Verde Community Development

♦ 473 S. Main Street, Suite 108 ♦ Camp Verde, Arizona 86322 ♦
♦ Telephone: 928.554.0050 ♦ www.campverde.az.gov ♦

OFFICIAL USE ONLY:

PERMIT NUMBER: _____

TIME/DATE STAMP: _____

APPLICATION FOR PERMIT

PROJECT INFORMATION:

PROJECT TYPE: RESIDENTIAL COMMERCIAL ADDITION ALTERATION/REMODELING DEMOLITION NEW OTHER

DESCRIPTION OF PROJECT: _____ VALUATION: \$ _____

HAS CONSTRUCTION STARTED ON THIS PROPERTY: YES NO SQUARE/LINEAR FOOTAGE: _____ BLDG HEIGHT: _____

PROPERTY INFORMATION:

PARCEL NUMBER: _____ - _____ - _____ PHYSICAL ADDRESS: _____

PROPANE NATURAL GAS ALL ELECTRIC

SANITATION SERVICE PROVIDED BY:

CAMP VERDE WASTEWATER (SEWER) PERMIT # _____ SEPTIC SYSTEM PERMIT # _____

Note: Sewer connection permits must be obtained directly from the Camp Verde Waster Water Division. Please contact the Waste Water Division at (928) 567-6794. Septic permits must be obtained directly from Yavapai County Development Services. Please contact Yavapai County at (928) 639-8151 or www.yavapai.us.

WATER SERVICE PROVIDED BY:

CAMP VERDE WATER COMPANY VERDE LAKES WATER COMPANY WELL – PERMIT NUMBER: _____

Note: Well licensing information can be obtained through Arizona Department of Water Resources (ADWR). Please contact ADWR at (602) 771-8500 or www.azwater.gov.

PROPERTY OWNER INFORMATION:

OWNER(S) NAME: _____

MAILING ADDRESS: _____ CITY: _____ STATE: _____

ZIP CODE: _____ PHONE: (_____) _____ - _____ E-MAIL: _____

Note: If you recently purchased this property and Yavapai County does not yet reflect you as the current property owner, you will be required to show proof of ownership documentation at the time of application submittal.

APPLICANT INFORMATION:

OWNER TENANT AGENT CONTRACTOR OTHER

APPLICANT NAME: _____

MAILING ADDRESS: _____ CITY: _____ STATE: _____

ZIP CODE: _____ PHONE: (_____) _____ - _____ E-MAIL: _____

Attention Applicant: If you are not the property owner, you must have something in writing from the property owner granting you permission to act on their behalf as agent. Or the following Designation of Agent clause must be signed by the property owner:

DESIGNATION OF AGENT

WHEREAS, the above property owner is seeking to develop or improve real property within the municipal limits of the Town of Camp Verde, Yavapai County, Arizona, which will require the filing, processing, and payment of certain zoning, construction and inspection permits and reports, both from the Town and related agencies, and WHEREAS, the owner elects to designate an agent with authority to file and process all necessary permits and information related to property zoning and improvement, including the authority to pay fees and consent to inspections, NOW THEREFORE, the undersigned owner hereby designates:

_____, whose address is: _____

whose email is: _____, whose phone number is: _____

agent to file the permit applications and related documents with the Town of Camp Verde, with such authority to continue until the application process is complete or as may be earlier revoked in writing.

OWNER NAME: _____ SIGNATURE: _____ DATE: _____

CONTRACTOR INFORMATION:

ARS §32-1169. Local proof of valid license; violation; penalty. A. Each county, city, or other political subdivision or authority of this state or any agency, department, board or commission of this state which requires the issuance of a building permit as a condition precedent to the construction, alteration, improvement, demolition or repair of a building, structure or other improvement to real property for which a license is required under this chapter, as part of the application procedures which it utilizes, shall require that each applicant for a building permit file a signed statement that the applicant is currently licensed under the provisions of the chapter with the applicant's license number and the applicant's privilege license number required pursuant to ARS Section §42-5005. If the applicant purports to be exempt from the licensing requirements of this chapter, the statement shall contain the basis of the asserted exemption and the name and license number of any general, mechanical, electrical or plumbing contractor who will be employed on the work. The local issuing authority may require from the applicant a statement signed by the registrar to verify any purported exemption. B. The filing of an application containing false or incorrect information concerning an applicant's contractor's license or transaction privilege license with the intent to avoid the licensing requirements of this chapter is unsworn falsification pursuant to ARS Section§13-2704.

I AM CURRENTLY A LICENSED CONTRACTOR:

NAME: _____ COMPANY NAME: _____

ROC LICENSE NUMBER: _____ LICENSE CLASS: _____ TOWN BUSINESS LICENSE #: _____

SIGNATURE: _____ TITLE: _____ DATE: _____

Note: All contractors performing work within the Town of Camp Verde are required to obtain a Town Business License. Town Business Licenses can be obtained through the Clerk's Office at 473 S. Main St. Ste. 102, Camp Verde, AZ 86322.

EXEMPTION FROM LICENSING:

I am exempt from Arizona Contractors' License Laws on the basis of the license exemptions contained in ARS §32-1121A, namely:

- ARS §32-1121A.5 – I am the owner/builder of the property and the property will not be sold or rented for at least one year after completion of this project.
- ARS §32-1121A.6 – I am the owner/developer of this property and I will contract with a licensed general contractor to provide all construction services.
 - All contractors' names and license numbers will be included in all sales documents.
- Other – (Please Specify): _____

I understand that the exemption provided by ARS §32-1121A.14 (The Handyman Exemption) does not apply to any construction project which requires a building permit and/or the total cost of materials and labor are \$1,000 or more.

I will be using the following licensed contractors on this project:

GENERAL CONTRACTOR	TOWN BUSINESS LICENSE NUMBER	ROC LICENSE NUMBER	LICENSE CLASS
ELECTRICAL CONTRACTOR	TOWN BUSINESS LICENSE NUMBER	ROC LICENSE NUMBER	LICENSE CLASS
MECHANICAL CONTRACTOR	TOWN BUSINESS LICENSE NUMBER	ROC LICENSE NUMBER	LICENSE CLASS
PLUMBING CONTRACTOR	TOWN BUSINESS LICENSE NUMBER	ROC LICENSE NUMBER	LICENSE CLASS

NAME: _____ SIGNATURE: _____ DATE: _____

BUILDING CODE REQUIREMENTS:

2018 INTERNATIONAL BUILDING CODE (IBC) & APPENDIX J
 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
 2018 INTERNATIONAL FUEL GAS CODE (IFGC) & APPENDICES A, B, C, D
 2017 NATIONAL ELECTRICAL CODE (NEC)
 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) & APPENDICES M, N, Q
 TOWN CODE CHAPTER 7 – BUILDING

2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
 2018 INTERNATIONAL FIRE CODE (IFC) & APPENDICES B, C, D
 2018 INTERNATIONAL MECHANICAL CODE (IMC) & APPENDIX A
 2018 INTERNATIONAL PLUMBING CODE (IPC) & APPENDIX F
 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE (ISpsc)

Note: Applicant assumes all responsibility for complying with any deed restrictions (CC&R's) that may apply to the property.

UNDER PENALTY OF INTENTIONAL MISREPRESENTATION AND/OR PERJURY, I DECLARE that I have examined and/or made this application and it is true and correct to the best of my knowledge and belief. I agree to construct said improvement in compliance with all provisions of the Ordinances of the Town of Camp Verde. I realize that the information that I have stated heron forms a basis for the issuance of the Building Permit herein applied for and approval of any plans in connection therewith shall not be construed to permit any construction upon said premises or use thereof in violation of any provision of the Town Code or any other ordinance or to excuse the owner or his successors from complying therewith. WHERE NO WORK HAS COMMENCED WITHIN 180 DAYS AFTER THE ISSUANCE OF A PERMIT OR WHEN MORE THAN 180 DAYS LAPSES BETWEEN APPROVAL OF REQUIRED INSPECTIONS, SUCH PERMIT SHALL BE VOID. I hereby certify that I am the OWNER at this address or that, for the purposes of obtaining this approval; I am acting on behalf of the owner. All contract work on this project will be done by a contractor holding a valid privilege tax license issued by the Town of Camp Verde and contractor's license issued by the State of Arizona.

NAME: _____ SIGNATURE: _____ DATE: _____

OFFICIAL USE ONLY:

Building:	\$
Plan Review:	\$
Engineering:	\$
Fire:	\$
Zoning:	\$
Inv. Fee:	\$
ICC Valuation:	\$
Subtotal:	\$
3% Tech Fee:	\$
Total Due:	
Deposit Amount:	
Balance Due:	
Application Taken By:	

PLOT PLAN SKETCH:

Show lot/parcel lines and dimensions, adjacent streets and alleys, front of property, driveway, location of all proposed and existing buildings including dimensions, all building setbacks and distances between buildings, location of septic tank and leach lines, locations of incoming water yard lines and meter, electric yard line and meter, gas lines and tanks, any terrain features that affect placements, location and dimensions of easements and any washes, creeks or ditches within twenty (20) feet of the property.

PARCEL NUMBER _____ - _____ - _____

SCALE: _____
NO SMALLER THAN 1" = 50'

INDICATE NORTH:



I/WE, _____, certify that I/WE are the Owner or Owner's Agent, that all information provided for this plot plan is correct and that this plot plan, as a part of the permit application, indicates all structures (including fences, walls, and pads), correct setback distances, legal access and easements, cuts, fills, drainage and any water course (including washes, drainage ditches, etc.) on or adjacent to the property within twenty (20) feet of any proposed or existing structure(s). I/WE, the Owner or Owner's Agent indemnify and hold harmless the Town of Camp Verde, its officers, agents and employees for any omissions knowingly or unknowingly made by the Owner, Applicant or Agent on this plot plan, resulting in the issuance of permit. I/WE understand that any items constructed in an easement, legal access area or right-of-way may be required to be removed. Furthermore, I/WE, the Owner or Owner's Agent understand that the Town of Camp Verde, its officers, agents and employees, will not be responsible for removal and replacement of said structure(s), AND removal/replacement of said structures will be at the Owner's expense. I/WE certify that the proposed construction will conform to the dimensions and uses shown and that no changes will be made without first obtaining approval.

OWNER/AGENT SIGNATURE: _____ DATE: _____

OFFICIAL USE ONLY:

PERMIT NUMBER: _____ APPROVED BY: _____ DATE: _____

Copper Canyon Fire and Medical District

26 W. Salt Mine Rd.
CAMP VERDE, AZ 86322-0386
BUSINESS 567-9401 • EMERGENCY 911

Solar Photovoltaic Permit Application

Section A, Site Information: Complete for all permits

Job Address:

_____ *Number and Street name, City/Town, Zip code*

Name of Building Owner: _____

Owner Address (Street): _____

Owner Address (City, State): _____

Zip Code: _____

Owner Phone Number: _____

() _____

Section B, Project Information: Complete for all permits.

Roof Square Footage: _____ Array Square Footage: _____ All AC System?: Yes or No

Roof Style: Hip Roof Single Ridge Roof Gable Roof

Roof Slope: _____

Roof Access:

Number of Roof Access Points _____

Width of Roof Access Points _____

Is the roof access point over a door or window? _____

Are roof access points located at strong points of building construction? _____

Are panels/modules located higher than 3' below the ridge? _____

Markings (Interior and Exterior)

Are all DC conduits, enclosures and raceways marked every 10 feet? _____

Are all DC cable assemblies, junction and combiner boxes marked? _____

Are all disconnects marked? _____

Section C, Applicant, Project Contractor/Designer Information:

Installing Contractor:

_____ *Name*

_____ *Address*

_____ *Phone*

License Information: _____

Applicant Name: _____

Address: _____

Phone _____

I hereby certify that the information contained within this application is correct and accurate.

Signature of Applicant: _____ Date: _____

YAVAPAI COUNTY FLOOD CONTROL DISTRICT

1120 COMMERCE DRIVE
PRESCOTT, AZ 86305
928.771.3197 PHONE
928.771.3427 FAX



10 S. 6TH STREET
COTTONWOOD, AZ 86326
928.639.8151 PHONE
928.639.8118 FAX

www.ycflood.com

RESIDENTIAL GRID-TIED SOLAR SYSTEMS ADMINISTRATIVE REVIEW FORM

PROPERTY INFORMATION

ASSESSOR'S PARCEL NUMBER _____

PROPERTY ADDRESS _____

PROPERTY OWNER INFORMATION

OWNER _____ PHONE _____

MAILING ADDRESS _____

CITY _____ STATE _____ ZIP _____

APPLICANT / CONTRACTOR _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

CONTACT PHONE _____ CONTACT EMAIL _____

SOLAR INFORMATION

ROOF MOUNT GRID-TIED OFF GRID

GROUND MOUNT GRID-TIED OFF GRID

LEASED YES NO

VALUATION OF THE PROJECT _____

NOTE: THIS FORM DOES NOT APPLY TO OFF GRID, COMMERCIAL OR SYSTEMS THAT ARE NOT INSTALLED BY AN ARIZONA LICENSED CONTRACTOR. CONTACT DEVELOPMENT SERVICES AT (928) 771-3214 FOR SUBMITTAL REQUIREMENTS.

THIS FORM MAY BE SUBMITTED ELECTRONICALLY TO FLOODSOLAR@YAVAPAI.US, BY MAIL, OR IN PERSON AT OUR PRESCOTT OR COTTONWOOD OFFICE. IF THIS PARCEL IS IMPACTED BY A FEMA SPECIAL FLOOD HAZARD AREA, DISTRICT STAFF WILL CONTACT THE APPLICANT FOR ADDITIONAL INFORMATION.

FOR OFFICE USE ONLY:

CLERK: _____ APPLICATION# _____ DEVELOPMENT PERMIT# _____



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Solar Photovoltaic Applicants,

On October 17th, 2019 the Copper Canyon Fire & Medical District adopted the 2018 International Fire Code (IFC). All solar photovoltaic permit applications located within the Copper Canyon Fire & Medical District must comply with the new regulations. In addition, all solar photovoltaic plans submitted to the Building Department will be reviewed by the Fire Marshal for code compliance.

Please contact the Building Department at 928-554-0062 for additional information, questions, comments or concerns.

2018 INTERNATIONAL FIRE CODE (IFC) **SOLAR PHOTOVOLTAIC REQUIREMENTS**

2018 IBC PART 1 – SCOPE AND APPLICATION:

[A] 101.2 Scope.

The provisions of this code shall apply to the construction, *alteration*, relocation, enlargement, replacement, *repair*, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures.

[A] 105.1 Required.

Any *owner* or owner's authorized agent who intends to construct, enlarge, alter, *repair*, move, demolish or change the occupancy of a building or structure, or to erect, install, enlarge, alter, *repair*, remove, convert or replace any electrical, gas, mechanical or plumbing system, the installation of which is regulated by this code, or to cause any such work to be performed, shall first make application to the building official and obtain the required *permit*.

2018 IFC SECTION 1204 - SOLAR PHOTOVOLTAIC POWER SYSTEMS

1204.1 General.

Solar photovoltaic systems shall be installed in accordance with Sections 1204.2 through 1204.5, and the *International Building Code* or *International Residential Code*. The electrical portion of solar PV systems shall be installed in accordance with NFPA 70.

NOTE: Please refer to Section 3111 of the 2018 IBC for the prevailing code.

1204.2 Access and pathways.

Roof access, pathways, and spacing requirements shall be provided in accordance with Sections 1204.2.1 through 1204.3.3. Pathways shall be over areas capable of supporting fire fighters accessing the roof. Pathways shall be located in areas with minimal obstructions, such as vent pipes, conduit or mechanical equipment.

Exceptions:

1. Detached, non-habitable Group U structures including, but not limited to, detached garages serving Group R-3 buildings, parking shade structures, carports, solar trellises and similar structures.
2. Roof access, pathways and spacing requirements need not be provided where the *fire code official* has determined that rooftop operations will not be employed.

1204.2.1 Solar photovoltaic systems for Group R-3 buildings.

Solar photovoltaic systems for Group R-3 buildings shall comply with Sections 1204.2.1.1 through 1204.2.1.3.

Exceptions:

1. These requirements shall not apply to structures designed and constructed in accordance with the *International Residential Code*.
2. These requirements shall not apply to roofs with slopes of 2 units vertical in 12 units horizontal or less.

1204.2.1.1 Pathways to ridge.

Not fewer than two 36-inch-wide (914 mm) pathways on separate roof planes, from lowest roof edge to ridge, shall be provided on all buildings. Not fewer than one pathway shall be provided on the street or driveway side of the roof. For each roof plane with a photovoltaic array, not fewer than one 36-inch-wide (914 mm) pathway from lowest roof edge to ridge shall be provided on the same roof plane as the photovoltaic array, on an adjacent roof pane or straddling the same and adjacent roof planes.

1204.2.1.2 Setbacks at ridge.

For photovoltaic arrays occupying 33 percent or less of the plan view total roof area, a setback of not less than 18 inches (457 mm) wide is required on both sides of a horizontal ridge. For photovoltaic arrays occupying more than 33 percent of the plan view total roof area, a setback of not less than 36 inches (914 mm) wide is required on both sides of a horizontal ridge.

1204.2.1.3 Alternative setback at ridge.

Where an automatic sprinkler system is installed within the dwelling in accordance with Section 903.3.1.3, setbacks at the ridge shall conform to one of the following:

1. For photovoltaic arrays occupying 66 percent or less of the plan view total area, a setback of not less than 18 inches (457 mm) wide is required on both sides of a horizontal ridge.
2. For photovoltaic arrays occupying more than 66 percent of the plan view total roof area, a setback of not less than 36 inches (914 mm) wide is required on both sides of a horizontal ridge.

1204.2.2 Emergency escape and rescue openings.

Panels and modules installed on Group R-3 building shall not be placed on the portion of a roof that is below an emergency escape and rescue opening. A pathway of not less than 36 inches (914 mm) wide shall be provided to the emergency escape and rescue opening.

1204.3 Other than Group R-3 buildings.

Access to systems for buildings, other than those containing Group R-3 occupancies, shall be provided in accordance with Sections 1204.3.1 through 1204.3.3.

Exception: Where it is determined by the *fire code official* that the roof configuration is similar to that of a Group R-3 occupancy, the residential access and ventilation requirements in Sections 1204.2.1.1 through 1204.2.1.3 are a suitable alternative.

1204.3.1 Perimeter pathways.

There shall be a minimum 6-foot-wide (1829 mm) clear perimeter around the edges of the roof.

Exception: Where either axis of the building is 250 feet (76 200 mm) or less, the clear perimeter around the edges of the roof shall be permitted to be reduced to a minimum width of 4 feet (1219 mm).

1204.3.2 Interior pathways.

Interior pathways shall be provided between array sections to meet the following requirements:

1. Pathways shall be provided at intervals not greater than 150 feet (45 720 mm) throughout the length and width of the roof.
2. A pathway not less than 4 feet (1219 mm) wide in a straight line to roof standpipes or ventilation hatches.
3. A pathway not less than 4 feet (1219 mm) wide around roof access hatches, with not fewer than one such pathway to a parapet or roof edge.

1204.3.3 Smoke ventilation.

The solar installation shall be designed to meet the following requirements:

1. Where nongravity-operated smoke and heat vents occur, a pathway not less than 4 feet (1219 mm) wide shall be provided bordering all sides.
2. Smoke ventilation options between array sections shall be one of the following:
 - 2.1 A pathway not less than 8 feet (2438 mm) wide.
 - 2.2 Where gravity-operated dropout smoke and heat vents occur, a pathway not less than 4 feet (1219 mm) wide on not fewer than one side.
 - 2.3 A pathway not less than 4 feet (1219 mm) wide bordering 4-foot by 8-foot (1219 mm by 2438 mm) venting cutouts every 20 feet (6096 mm) on alternating sides of the pathway.

1204.4 Ground-mounted photovoltaic panel systems.

Ground-mounted photovoltaic panel systems shall comply with Section 1204.1 and this section. Setback requirements shall not apply to ground-mounted, free-standing photovoltaic arrays. A clear, brush-free area of 10 feet (3048 mm) shall be required for ground-mounted photovoltaic arrays.

1204.5 Buildings with rapid shutdown.

Buildings with rapid shutdown solar photovoltaic systems shall have permanent labels in accordance with Sections 1204.5.1 through 1204.5.3.

1204.5.1 Rapid shutdown type.

The type of solar photovoltaic system rapid shutdown shall be labeled with one of the following:

1. For solar photovoltaic systems that shut down the array and the conductors leaving the array, a label shall be provided. The first two lines of the label shall be uppercase characters with a minimum height of 3/8 inch (10 mm) in black on a

yellow background. The remaining characters shall be uppercase with a minimum height of 3/16 inch (5 mm) in black on a white background. The label shall be in accordance with Figure 1204.5.1(1) and state the following:

SOLAR PV SYSTEM EQUIPPED WITH
RAPID SHUTDOWN. TURN RAPID
SHUTDOWN SWITCH TO THE "OFF"
POSITION TO SHUT DOWN PV SYSTEM
AND REDUCE SHOCK HAZARD IN
ARRAY.

- For photovoltaic systems that only shut down conductors leaving the array, a label shall be provided. The first two lines of the label shall be uppercase characters with a minimum height of 3/8 inch (10 mm) in white on a red background and the remaining characters shall be capitalized with a minimum height of 3/16 inch (5 mm) in black on a white background. The label shall be in accordance with Figure 1204.5.1(2) and state the following:

THIS SOLAR PV SYSTEM EQUIPPED WITH
RAPID SHUTDOWN. TURN RAPID
SHUTDOWN SWITCH TO THE "OFF"
POSITION TO SHUT DOWN CONDUCTORS
OUTSIDE THE ARRAY. CONDUCTORS
WITHIN ARRAY REMAIN
ENERGIZED IN SUNLIGHT.

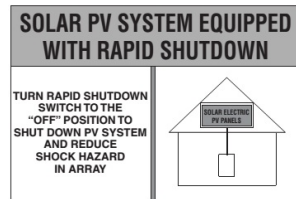


FIGURE 1204.5.1(1)

LABEL FOR SOLAR PV SYSTEMS THAT REDUCE SHOCK HAZARD WITHIN ARRAY AND SHUT DOWN CONDUCTORS LEAVING ARRAY

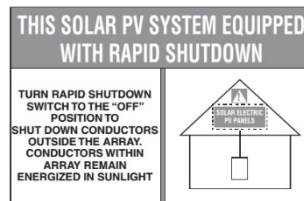


FIGURE 1204.5.1(2)

LABEL FOR SOLAR PV SYSTEMS THAT ONLY SHUT DOWN CONDUCTORS LEAVING THE ARRAY

1204.5.1.1 Diagram.

The labels in Section 1204.5.1 shall include a simple diagram of a building with a roof. Diagram sections in red signify sections of the solar photovoltaic system that are not shut down when the rapid shutdown switch is turned off.

1204.5.1.2 Location.

The rapid shutdown label in Section 1204.5.1 shall be located not greater than 3 feet (914 mm) from the service disconnecting means to which the photovoltaic systems are connected, and shall indicate the location of all identified rapid shutdown switches if not at the same location.

1204.5.2 Buildings with more than one rapid shutdown type.

Solar photovoltaic systems that contain rapid shutdown in accordance with both items 1 and 2 of Section 1204.5.1 or solar photovoltaic systems where only portions of the systems on the building contain rapid shutdown, shall provide a detailed plan view diagram of the roof showing each different photovoltaic system and a dotted line around areas that remain energized after the rapid shutdown switch is operated.

1204.5.3 Rapid shutdown switch.

A rapid shutdown switch shall have a label located not greater than 3 feet (914 mm) from the switch that states the following:

RAPID SHUTDOWN SWITCH
FOR SOLAR PV SYSTEM



Handicap Relay: 711 or Voice: 1-800-842-4681 TTD: 1-800-367-8939

