



# Allowed range of photovoltaic panels





## Overview

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Many modern residential modules are roughly around 17–22 ft<sup>2</sup> each. Use your specific panel's length × width for best accuracy. Going from 15 to 16 panels may push you into “>33%” territory. Solar, or photovoltaic (PV) panels as they're referred to in NFPA 1, Fire Code, are becoming more and more common on one- and two-family dwelling and townhouse roofs. Since the 2016 edition of NFPA 1, access pathways have been required on roofs to facilitate fire service access as well as egress. In 2011, California adopted a Renewable Portfolio Standard (RPS) requiring that at least one-third of the state's electricity come from clean energy sources by 2020. The California RPS program was established in 2002 by Senate Bill (SB) 1078 (Sher, 2002) with the initial requirement that 20% of. The Renewable Energy Ready Home (RERH) specifications were developed by the U. Environmental Protection Agency (EPA) to assist builders in designing and constructing homes equipped with a set of features that make the installation of solar energy systems after the completion of the home's. Managing the setback of solar panels from the roof edge impacts fire access, maintenance, wind performance, and overall system longevity. Getting them right protects safety, speeds permitting, and prevents costly redesigns., the phrase “33% rule” most often refers to rooftop solar fire-safety layout triggers: once a PV array covers more than about 33% of the roof's plan-view area, codes in many jurisdictions require larger ridge setbacks (and often clearer access pathways) for firefighter.



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### Solar Panel Guidelines

Allowed only with ARC approval if: Roof-mounted installation would reduce energy production by more than 10%, Panels are completely shielded from street and common area views using appropriate ...

### [Solar Panel Roof Setbacks: Rules, 33% and Edge Clearances](#)

Learn solar panel roof setbacks - typical ridge and edge distances, the 33% coverage rule, and how to plan compliant arrays. Clear, practical guidance.



### [Solar Photovoltaic: SPECIFICATION, CHECKLIST AND GUIDE](#)

The RERH specifications and checklists take a builder and a project design team through the steps of assessing a home's solar resource potential and defining the minimum structural and system ...



### What Is The 33% Rule For Solar Panels?

One of the most common rules in place is referred to as the 33% rule, and it dictates where you're allowed to place solar panels in relation to the edge of your sloped roof.



## What Is the 33% Rule in Solar Panels? - UDPOWER

Learn what the 33% rule in solar panels really means, how to calculate roof plan-view coverage, and why it can change ridge setbacks and access pathways. Includes clear examples, ...



## Photovoltaic (PV) Quick Reference Guide

One- and two-family dwellings and townhomes not exceeding 3 stories and their accessory structures, with one electric meter per dwelling. Roof-top mounted PV on a structurally-sound roof without signs ...



## [Solar Panel Setback From Roof Edge: Codes, Best Practices, and](#)

This article explains setback distances, relevant building and fire codes, structural and water-shedding concerns, permit and inspection considerations, and practical installation strategies. ...



## [Solar Panel Setback From Roof Edge:](#)



## Guidelines, Codes, and Best

Managing the setback of solar panels from the roof edge impacts fire access, maintenance, wind performance, and overall system longevity. This article explores typical setback ...



## Solar Photovoltaic: SPECIFICATION, CHECKLIST AND GUIDE

About the Renewable Energy Ready Home Specifications Assumptions of the RERH Solar Photovoltaic Specification Builder and Specification Limitations 1.5 Document the solar resource potential at the designated array location 3.3 Install a conduit for the AC wire run from the designated inverter location to the electric service panel 4.2 Record the name and Web address of the electric utility service provider 5.1 Landscape Plan 5.2 Placement of non-array roof penetrations and structural building elements Appendix A: RERH Labeling Guidance The Renewable Energy Ready Home (RERH) specifications were developed by the U.S. Environmental Protection Agency (EPA) to assist builders in designing and constructing homes equipped with a set of features that make the installation of solar energy systems after the completion of the home's construction easier and less expensive. The specifications See more on [PDF]

## **Photovoltaic (PV) Quick Reference Guide - NREL**

One- and two-family dwellings and townhomes not exceeding 3 stories and their accessory structures, with one electric meter per dwelling. Roof-top mounted PV on a structurally-sound roof without signs ...

## **Residential Solar Panel Requirements**



When installing photovoltaic panels on one- and two-family homes, it's important to understand the requirements for access pathways and the requirements for setback from the ridge, ...



## Solar Permitting Guidebook 4th Edition

While current Title 24 requirements establish several legal standards for installation of solar energy installations, Title 24 may be amended through the state's code update process to ...



## Contact Us

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