



Local Governments Empowering Our Communities

Energy Code ePermit Tool Project

Demian Hardman, Contra Costa County
June 28, 2018

Purpose of ePermit Tool Project

- **Provide a simple to use online guide to assist with common building permit Code requirements that:**
 1. Educates homeowners and contractors
 2. Expedites permitting process
 3. Improves Energy Code Compliance

What does the BayREN ePermit Tool do?

- Provides **online building permit guidance** for customers who want to install/replace:
 - **Water Heaters**
 - **Windows**, glass doors, and skylights (i.e. Fenestration)

Residential Water Heater Replacement Tool



www.cccounty.us/energy

BAYREN

Permit Guide eTool Demonstration

Welcome to the permit guide eTool.

Please select which eTool you would like to use:

Water Heater

Windows

BAYREN

Permit Guide eTool demo for Windows

Welcome to the permit guide eTool for windows, glass doors, and skylights! ²

California's Building Code (Title-24) requires permits for all new and replacement windows, skylights, and glass doors (collectively called "fenestration"). In addition, the energy code (Title-24 Part 6) requires that all new and replacement fenestration meet certain energy specifications. Whether you are replacing existing fenestration or installing new fenestration, this eTool will help you select an appropriate, efficient, and compliant solution, and will generate permit paperwork customized to your project.

How to use this eTool:

- Navigate the tool by clicking on the continue button of each question when you have made your selection
- You can change your answers at any time by using the back button on each page. *(Please note: changing answers to previous questions will erase answers provided after the given question)*

Back

Continue

BAYREN

Permit Guide eTool demo for Windows

Welcome to the permit guide eTool for windows, glass doors, and skylights!

What fenestration changes are you planning to make?

What fenestration changes are you planning to make?

To get started, are you adding any new fenestration (windows, glass doors, and skylights)?

- Yes, I'm adding new fenestration OR I'm both adding new and replacing existing fenestration
- No, I'm only replacing existing fenestration

If you are adding new fenestration AND replacing existing fenestration, choose 'yes' above

Back

Continue

BAYREN

Permit Guide eTool demo for Windows

What type of fenestration are you adding?[?]

Are you adding new windows, new skylights, or both?

- I'm only adding windows and/or glass doors
- I'm only adding skylights
- I'm adding both windows and skylights

Back

Continue

BAYREN

Permit Guide eTool demo for Windows

How much area are you adding?

Enter the total square footage of the windows you plan to add (new windows only, do not include the square footage of any already-existing windows you are replacing):

New window area (to the nearest square foot):

200

Please enter the zip code of the project address:

94533

Back

Continue

BAYREN

Permit Guide eTool demo for Windows

Welcome to the permit guide eTool for windows, glass doors, and skylights!

What fenestration changes are you planning to make?

What type of fenestration

Window and skylight area calculations

Is the total square footage of ALL windows and skylights (including already existing windows, skylights, and sliding glass doors) less than or equal to 20% of the square footage of your home and west facing fenestration is $\leq 5\%$ of floor area?

- Yes
- No
- I don't know

Back

Continue

BAYREN

Permit Guide eTool demo for Windows

Fenestration area calculations [?]

Enter the total square footage of all windows, sliding glass doors, and skylights (both new and already-existing). Then enter the total area of all [west-facing](#) windows, sliding glass doors, and skylights. Next, enter the square footage of your home (including all conditioned areas, but not including unconditioned space, such as the garage), and click Continue.

All areas should be calculated to the nearest square foot.

Total fenestration area:

West-facing fenestration area:

 [?]

What is the square footage of your home:

Back

Continue

BAYREN

Permit Guide eTool demo for Windows

Window and skylight efficiency requirements

Since the total area of all windows and skylights (including existing windows and skylights) is less than 20% of the floor area AND the area of all west-facing windows is $\leq 5\%$ of the floor area, you may install new windows with U-Factor no greater than 0.32 and SHGC no greater than 0.25.

Forms and Information

As part of the permitting process you will need to complete the CF1R-ALT-05-E – Prescriptive Alterations form.

CF1R-Alt-05-E – Prescriptive alterations


If you are submitting your permit in person at the [Contra Costa Permit Center](#), please download the PDF permit application provided with the project description pre-filled for your convenience.

Contra Costa PDF Permit Application

If you are submitting your permit electronically through the [Contra Costa ePermit Center](#), please copy the project description below and paste it into your online application.

Add 200 square feet of windows with U-Factor ≤ 0.32 and SHGC ≤ 0.25 - per BayREN Recommendation

Back

Download 

Questions?

Demian Hardman
Energy Efficiency Programs
Contra Costa County
Department of Conservation and Development
www.cccounty.us/energy

