


## Residential Window Replacements General Requirements

A building permit is **not** required for the replacement of windows, subject to the following provisions:

- The replacement of windows with new windows of equal dimensions, which do not involve alteration of framing and which comply with applicable California Energy Code standards, does **not** require the issuance of a building permit. However, if framing is altered or if windows are being replaced in conjunction with any other alterations, additions, or other major improvements that require a building permit, the window replacement shall be included in the permit and be inspected as part of the project.
- Repairs to glazing are exempt from energy regulations and permitting requirements.
- Exemptions from the building permit requirement shall not be deemed to grant authorization for any work to be done in any manner contrary to the provisions of local codes or state laws.

### **“Exempt Window” Requirements:**

- Property Owners shall be required to self-certify that replacement windows are in compliance with State energy standards by the completion and retention of the applicable State-mandated certification form(s). A copy of the State form(s) is available on the City's web site and property owners may contact the Building Division for assistance in completing the form(s).
- The property owner has the option to submit a building permit application, but will not be required for projects that meet the criteria for exemption as noted above. Property owners will remain responsible for self-certification of compliance with State energy regulations.

	<b><i>Building Division</i></b>		
	<b>RESIDENTIAL WINDOW REPLACEMENT</b>		
(209) 937-8561	345 N El Dorado St., Stockton CA 95202		
FAX: (209) 937-8603	6/12/07		1 of 4

**Non-exempt Window Requirements:**

As noted on the previous page, if a "Window Replacement" project involves the alteration of the existing building framing to accommodate the new windows and/or is part of another project that requires a Building Permit, the following apply:

Submittal requirements: 1) Complete a building permit application; 2) Floor plan identifying windows to be replaced, sizes of windows, and use of room(s). (subject to review)

- Smoke detectors will be required to be installed per Stockton Municipal Code.
- At final inspection, a CF-6R form is required to be provided to the Building Inspector.

**Bedroom Egress Requirements:**


- <http://www.stocktongov.com/cd/pages/documents/BedroomEgress.pdf>

**Energy Requirements**

- Manufactured exterior doors and windows/skylights (window) products must be certified by the California Energy Commission.
- 50 sq. ft. of new added glazing (not replacement) is permitted without having to provide energy calculations justifying the change.
- If more than 50 sq. ft. additional glazing is proposed, energy form WS-4R may be completed to show compliance. This form limits the additional area to a maximum of 20% of the existing building floor area.
- The other alternative is to provide energy documentation to show compliance to one of the energy commission's approved methods provided in the 2005 California Energy Code. This is generally the most stringent approach for this type of project.
- All glazing must meet the following window criteria:
  - Maximum Glazing U-factor (new/replacement window): .57
  - Maximum Glazing SHGC-coefficient: .40
  - These certifications will be shown as a label on the window, skylight, or exterior door. The label shall not be removed before inspection.

**Safety Glazing** (a permanent label must identify glazing subject to human impact)

- Glazing in doors.
- Glazing adjacent to door, where the closed door is within 24" of glazing and where the bottom edge of the glazing is within 60" of the walking surface.
- Glazing that is greater than 9 sq. ft. with the bottom edge less than 18" above the floor.
- Other areas as specified in Section 2406 California Building Code.

	<b><i>Building Division</i></b>		
	<b>RESIDENTIAL WINDOW REPLACEMENT</b>		
(209) 937-8561	345 N El Dorado St., Stockton CA 95202		
FAX: (209) 937-8603	6/12/07		2 of 4

**INSTALLATION CERTIFICATE**

Site Address	Permit Number
--------------	---------------

An installation certificate is required to be posted at the building site or made available for all appropriate inspections. (The information provided on this form is required) After completion of final inspection, a copy must be provided to the building department (upon request) and the building owner at occupancy, per Section 10-103(a).

**FENESTRATION/GLAZING:**

Item	Manufacturer/Brand Name (GROUP LIKE PRODUCTS)	Product U-factor <sup>1</sup> (≤ CF-1R value) <sup>2</sup>	Product SHGC <sup>1</sup> (≤CF-1R value) <sup>2</sup>	# of Panes	Total Quantity of Like Product (Optional)	Area Square Feet	Exterior Shading Device or Overhang	Comments/Location/ Special Features
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								

- <sup>1)</sup> Use values from a fenestration product’s NFRC label. For fenestration products without an NFRC label, use the default values from Section 116 of the Energy Efficiency Standards.
- <sup>2)</sup> Installed U-factor must be less than or equal to values from CF-1R. Installed SHGC must be less than or equal to values from CF-1R, or a shading device (exterior or overhang) is installed as specified on the CF-1R. Alternatively, installed weighted average U-factors for the total fenestration area are less than or equal to values from CF-1R. If using default table SHGC values from §116 identify whether tinted or not.

I, the undersigned, verify that the fenestration/glazing listed above my signature: 1) is the actual fenestration product installed; 2) is equivalent to or has a lower U-factor and lower SHGC than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the *Energy Efficiency Standards* for residential buildings; and 3) the product meets or exceeds the appropriate requirements for manufactured devices (from Part 6), where applicable.

Item #s (if applicable)	Signature	Date	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor
Item #s (if applicable)	Signature	Date	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor
Item #s (if applicable)	Signature	Date	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor

**Copies to: Building Department , HERS Rater (if applicable) Building Owner at Occupancy**

# FENESTRATION – MAXIMUM ALLOWED AREA WORKSHEET

**WS-4R**

Project Title \_\_\_\_\_

Date \_\_\_\_\_

## FENESTRATION PRODUCTS – NEW CONSTRUCTION- NEW BUILDINGS

Use this table for new building construction to account for total building % of fenestration.

A	B	C	D	E	F	G
#/Type/Pos. (Front, Left, Rear, Right, Skylight)	Orientation	Total Fenestration, West Facing Area (ft <sup>2</sup> )	Total Fenestration for N, S, E Orientations Area (ft <sup>2</sup> )	CFA (ft <sup>2</sup> )	Total Percent of West Facing Fenestration <sup>1</sup> (C/E) x 100%	Total % of Fenestration <sup>2</sup> Including West (D/E) x 100% + F
	North					
	South					
	East					
	West					
	Totals					

- 1) If west facing area exceeds 5% of CFA in climate zones 2, 4, and 7-15, the performance approach must be used.
- 2) If total percent of fenestration exceeds 20% including West facing orientations then performance approach must be used. West facing area includes skylights tilted to the west or tilted in any direction when the pitch is less than 1:12 for Package D only.

## FENESTRATION PRODUCTS – NEW CONSTRUCTION- ADDITIONS

✓  Less than 100 ft<sup>2</sup>,  Less than or Equal to 1000 ft<sup>2</sup>,  Greater 1000 ft<sup>2</sup>

A	B	C	D	E	F	G	H
#/Type/Pos. (Front, Left, Rear, Right, Skylight)	Orientation	Proposed Addition's CFA <sup>1,2,3</sup>	Proposed Addition's Fenestration Area (ft <sup>2</sup> ) <sup>4</sup>	Fenestration Area Removed to make way for Addition (ft <sup>2</sup> ) <sup>2</sup>	Total Area Added Fenestration <sup>2</sup> (D - E)	Total % of West Facing Fenestration <sup>2</sup> (G/C) x 100%	Total % of Fenestration <sup>2,3,4</sup> (F/C) x 100%
	North						
	South						
	East						
	West <sup>4</sup>						
					Total		

- 1) Additions ≤100 sf are allowed to install up to 50ft<sup>2</sup> of fenestration and are exempt from the 5% west facing and 20% maximum total area limits and shall meet the U-factor and SHGC requirements of Package D. See Table 8-2 in the Residential Manual. Note: Leave columns E, F, G, H, and I blank.
- 2) Additions ≤1,000 ft<sup>2</sup>, the maximum net allowed fenestration is 20% and may be increased additionally to by the amount of glazing removed in the wall that separates the addition from the existing house. However, the total West facing fenestration can not exceed 5% of the proposed addition's CFA including skylights orientated in any direction and tilted with a pitch of < 1:12. Column G can not exceed 5% and Column H can not exceed 20%.
- 3) Additions >1,000 ft<sup>2</sup>, must meet Package D requirements. See Table 8-2 and Table 151-C in Appendix B of the RM or use Performance Approach.
- 4) The 5% west orientation restrictions are only for Climate zones 2, 4, and 7-15; for Climate Zones 2, 4 and 7-15 enter **zero** (0) in column E.

## FENESTRATION PRODUCTS: ALTERATIONS

Use this table for alterations to an existing building where fenestrations products (windows) are being removed and/or added.

A	B	C	D	E	F	G	H	I
Existing CFA (ft <sup>2</sup> )	Existing Orientation	Existing Area (ft <sup>2</sup> )	Removed Orientation	Removed Area (ft <sup>2</sup> )	Proposed Installed Orientation	Proposed Installed New Area (ft <sup>2</sup> )	Total Net Fenestration (ft <sup>2</sup> ) (C-E+G)	Total % of Fenestration <sup>1,2</sup> (H/A) x 100% Max of 20%
	North		North		North			
	South		South		South			
	East		East		East			
	West		West		West			
	Total		Total		Total			

- 1) When 50 ft<sup>2</sup> or more of fenestration area is added to an existing building, then the fenestration must meet the requirements of Package D.
- 2) The area requirement for the total fenestration area for the whole building, including the added fenestration, must not exceed 20%. Otherwise, the Performance Approach must be used. See Section 8.3.3 in the RM for further details.