



CERTIFICATE OF COMPLIANCE

This compliance document is only applicable to simple alterations that do not require HERS verification for compliance. When HERS verification is required, a CF1R-ALT-01 shall first be registered with a HERS Provider Data Registry.

Alterations to Space Conditioning Systems that are exempt from HERS verification requirements may use the CF1R-ALT-05 and CF2R- ALT-05 Compliance Documents. Possible exemptions from duct leakage testing include: less than 25 feet (ft) of ducts were added or replaced; or the existing duct system was insulated with asbestos; or the existing duct system was previously tested and passed by a HERS Rater. If space conditioning systems are altered and are not exempt from HERS verification, then a CF1R-ALT-02 must be completed and registered with a HERS Provider Data Registry.

Alterations that utilize closed cell Spray Polyurethane Foam (ccSPF) with a density of 1.5 to less than 2.5 pounds per cubic foot having an R-value greater than 5.8 per inch, or open cell Spray Polyurethane Foam (ocSPF) with a density of 0.4 to less than 1.5 pounds per cubic foot having an R-value of 3.6 per inch, shall complete and register a CF1R-ALT-01 with a HERS Provider Data Registry.

If more than one person has responsibility for installation of the items on this certificate, each person shall prepare and sign a certificate applicable to the portion of construction for which they are responsible. Alternatively, the person with chief responsibility for construction shall prepare and sign this certificate for the entire construction. All applicable Mandatory Measures shall be met. Temporary labels shall not be removed before verification by the building inspector.

Project Details

Field Name	Data Entry	Field Name	Data Entry
Project Name		Enforcement Agency	
Dwelling Address		Permit Number	
City and Zip Code		Date Permit Issued	



A. GENERAL INFORMATION

Field	Field Name	Data Entry
01	Project Name	
02	Date Prepared	
03	Project Location	
04	Building Front Orientation (deg or cardinal)	
05	CA City	
06	Number of Altered Dwelling Units	
07	Zip Code	
08	Fuel Type	
09	Climate Zone	
10	Total Conditioned Floor Area (ft ²)	
11	Building Type	
12	Slab Area (ft ²)	
13	Project Scope	



D. Fenestration/Glazing Allowed Areas and Efficiencies (Section 150.2(b)1)

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Alteration Type			
02	Maximum Allowed Fenestration Area For All Orientations (ft ²)			
03	Maximum Allowed West-Facing Fenestration Area Only (ft ²)			
04a	Existing Fenestration Area for All Orientations (ft ²)			
04b	Existing West-Facing Fenestration Area (ft ²)			
05a	Maximum Allowed U-factor (Windows)			
05b	Maximum Allowed U-factor (Skylights)			
06a	Maximum Allowed SHGC (Windows)			
06b	Maximum Allowed SHGC (Skylights)			
07	Comments			



E. Fenestration Proposed Areas and Efficiencies – Add (Section 150.2(b)1A)

Note: Doors with greater than or equal to 25 percent glazed area are considered glazed doors and are treated as fenestration products.

Table E-1

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Tag/ID			
02	Fenestration Type			
03	Frame Type			
04	Dynamic Glazing			
05	Orientation N, S, W, E			
06	Number of Panes			
07	Proposed Fenestration Area (ft ²) (N, S, E)			
08	Proposed West Facing Fenestration Area (ft ²)			
09	Proposed U-factor			
10	Proposed U-factor Source			
11	Proposed SHGC			
12	Proposed SHGC Source			
13	Exterior Shading Device			
14	Combined SHGC from CF1R-ENV-03			



Table E-2

Field	Field Name	Data Entry
15	Total Proposed Fenestration Area	
16	Maximum Allowed Fenestration Area	
17	Compliance Statement: Existing + Proposed Fenestration Area ≤ Maximum Allowed Fenestration Area	<input type="radio"/> Yes <input type="radio"/> No
18	Total Proposed West-Facing Fenestration Area	
19	Maximum Allowed West-Facing Fenestration Area	
20	Compliance Statement: Existing + Proposed West-Facing Fenestration Area ≤ Maximum Allowed West-Facing Fenestration Area	<input type="radio"/> Yes <input type="radio"/> No
21	Proposed Fenestration U-factor (Windows)	
22	Required Fenestration U-factor (Windows)	
23	Compliance Statement: Proposed Fenestration U-factor ≤ Required Fenestration U-factor	<input type="radio"/> Yes <input type="radio"/> No
24	Proposed Fenestration SHGC (Windows)	
25	Required Fenestration SHGC (Windows)	
26	Compliance Statement: Proposed Fenestration SHGC ≤ Required Fenestration SHGC	<input type="radio"/> Yes <input type="radio"/> No
27	Proposed Fenestration U-factor (Skylights)	
28	Required Fenestration U-factor (Skylights)	
29	Compliance Statement: Proposed Fenestration U-factor ≤ Required Fenestration U-factor	<input type="radio"/> Yes <input type="radio"/> No
30	Proposed Fenestration SHGC (Skylights)	
31	Required Fenestration SHGC (Skylights)	
32	Compliance Statement: Proposed Fenestration SHGC ≤ Required Fenestration SHGC	<input type="radio"/> Yes <input type="radio"/> No



Documentation Author's Declaration Statement

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

Responsible Person's Declaration Statement

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be 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 registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300

CF1R-ALT-05-E User Instructions

NOTE: If more space is needed, print a duplicate page and fill in.

Minimum requirements for prescriptive alteration compliance can be found in Building Energy Efficiency Standards Section 150.2(b)1.

Completing these forms will require that you have the Reference Appendices for the 2019 Building Energy Efficiency Standards (P400-2018-020). This document contains the Joint Appendices which are used to determine climate zone and to complete the section for opaque surfaces. When the term CF1R is used it means the CF1R-ALT-05. Worksheets are identified by their entire name and subsequently by only the worksheet number, such as ENV-02.

Instructions for sections with column numbers and row letters are given separately.

If any part of the alteration does not comply, prescriptive compliance fails, in which case the performance compliance approach must be used in an attempt to achieve compliance.

A. General Information

1. Project Name: Identifying information, such as owner's name.
2. Date Prepared: Date of document preparation.
3. Project Location: Legal street address of property or other applicable identifying information.
4. Building Front Orientation: Building front orientation expressed in degrees, where North = 0, East = 90, South = 180, and West = 270. Indicate cardinal if it is a subdivision project built in multiple orientations. The standards (section 100.1) include the following additional details for determining orientation:
 - Cardinal covers all orientations (for buildings that will be built in multiple orientations);
 - North is oriented to within 45 degrees of true north, including 45 degrees east of north;
 - East is oriented to within 45 degrees of true east, including 45 degrees south of east;
 - South is oriented to within 45 degrees of true south, including 45 degrees west of south;
 - West is oriented to within 45 degrees of true west, including 45 degrees north of west.
5. CA City: Legal city/town of property.
6. Number of Altered Dwelling Units: 1 for single-family
7. Zip Code: 5-digit zip code for the project location (used to determine climate zone).
8. Fuel Type: Natural Gas, Liquefied Propane Gas, or Electricity.

9. Climate Zone: From Reference Appendices, Joint Appendix, JA2.1.1.
10. Total Conditioned Floor Area: Enter the new conditioned floor area in square feet (ft²), as measured from the outside of exterior walls of the dwelling unit or building being altered.
11. Building Type: Single Family (includes duplex), or Multi-Family (a building that shares common walls and common floors or ceilings).
12. Slab Area: Area of the first floor slab (if any) in square feet (ft²).
13. Project Scope: Insulation, Roof Replacement, Fenestration/Glazing, Heating System, Cooling System, Duct System, and/or Water Heating System alteration.

~~B. Building Insulation Details (Section 150.2(b)1)~~

- ~~1. Tag/ID: A label (if any) from the plans, such as A1.4 or wall.~~
- ~~2. Assembly Type: Roof, Ceiling, Wall, or Floor.~~
- ~~3. Frame Type: Wood or Metal.~~
- ~~4. Frame Depth: Nominal dimensions of framing material in inches such as 2x4, 2x6, 2x8, 2x10.~~
- ~~5. Frame Spacing: 16 or 24 inches on center.~~
- ~~6. Proposed Cavity R-value: Insulation installed between framing.~~

~~Proposed Continuous Insulation R-value: R-value of rigid or continuous insulation (not interrupted by framing). See Table 4.3.4. of Reference Appendices, Joint Appendix, for metal frame construction.~~

~~NOTE: Section 110.8(d) specifies that if adding insulation to an existing attic, the resulting attic insulation must total R-22. However, the amount of insulation required is limited to the amount of room available for insulation without conflicting with Building Code Section 1203.2.~~

- ~~7. Proposed U-factor: The U-factor for the entire assembly.~~
- ~~8. Joint Appendix JA4 Reference Table: Table number used to determine the R-value or U-factor (e.g., an attic assembly is 4.2.1).~~
- ~~9. Joint Appendix JA4 Reference Cell: Cell number used to determine the R-value or U-factor (e.g., an R-38 ceiling with 24-inch on center framing is A21).~~
- ~~10. Required U-factor: From the requirements in Sections 110.8 and 150.0.~~
- ~~11. Comments: Any notes regarding location, unique conditions, or attachments.~~

~~NOTE: If one of the exceptions above has been selected then the rest of Section C. is not required.~~

- ~~4. CRRC Product ID Number: The CRRC Product ID Number is obtained from the [Cool Roof Rating Council’s Rated Product Directory](#). Products are listed by manufacturer, brand, type of installation, roofing material, and color, as well as product performance.~~
- ~~5. Product type: See [Cool Roof Rating Council’s directory](#). Generally product types include single-ply roof, wood shingles, asphalt roof, metal roof, tile roof.~~
- ~~6. R-value Deck Insulation: If one of the exceptions selected includes adding roof deck insulation, indicate the R-value of the insulation.~~
- ~~7. Proposed Initial Solar Reflectance: Based on the product chosen from the [Cool Roof Rating Council’s Rated Product Directory](#). If using default assumption indicate N/A since the Aged Solar Reflectance is available.~~
- ~~8. Proposed Aged Solar Reflectance: Value is from the [Cool Roof Rating Council’s Rated Product Directory](#). If the aged value is not available, calculate the Aged Solar Reflectance using the Solar Reflectance Index (SRI) Calculator located on the California Energy Commission website or the aging equation $\rho_{aged} = [0.2 + \beta(\rho_{initial} - 0.2)]$, where $\rho_{initial}$ = the initial solar reflectance and soiling resistance β is listed by product type below.~~

~~VALUES OF SOILING RESISTANCE β BY PRODUCT TYPE~~

Product Type	CRRC Product Category	β
Field-Applied Coating	Field-Applied Coating	0.65
Other	Not A Field-Applied Coating	0.70

- ~~9. Proposed Thermal Emittance: From the product specification default value. If using a calculated Solar Reflectance Index (SRI) place the Thermal Emittance used to calculate SRI.~~
- ~~10. Proposed Solar Reflectance Index (SRI): It is optional to meet the SRI but if chosen to do so, use the Solar Reflectance Index (SRI) Calculator found on the [California Energy Commission website](#).~~
- ~~11. Minimum Required Aged Solar Reflectance: Based on climate zone and roof slope.~~
- ~~12. Minimum Required Thermal Emittance: Based on climate zone and roof slope.~~
- ~~13. Minimum Required SRI: Based on climate zone and roof slope.~~

~~NOTE: If the cool roofing requirements will be met by a liquid field applied coating, Section 110.8(i)4 requires the coating be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the manufacturer.~~

D. Fenestration/Glazing Allowed Areas and Efficiencies

The Alteration and Fenestration Type will affect how the standards apply and whether the fenestration area is limited. Percentages are determined as Conditioned Floor Area (CFA) x 0.20 = total square footage (ft²) of fenestration allowed (20 percent). Depending on the climate zone, if west-facing fenestration is limited (in climate zones 2, 4, 6-15), it is limited to a maximum of 5 percent. The overall total fenestration area is limited to 20 percent, not 25 percent. Fenestration areas are expressed in square feet, not square inches.

1. Alteration Type: Indicate the type of fenestration alteration - adding fenestration/glazing, replacing fenestration/glazing, adding fenestration/glazing less than or equal to 75 ft² windows, replacing fenestration/glazing less than or equal to 75 ft² window, adding fenestration/glazing less than or equal to 16 ft² skylight and or replacing fenestration/glazing skylights
2. Maximum Allowed Fenestration Area for All Orientations (ft²): The maximum allowed fenestration area is 20 percent. Depending on the type of fenestration and the alteration type, this field may have values such as 75 square feet (ft²) or 16 ft².
3. Maximum Allowed West-Facing Fenestration Area Only: The Maximum Allowed West-Facing Fenestration Area is 5 percent of the conditioned floor area (used in climate zones 2, 4, and 6-15).

NOTE: (1) If adding fenestration/glazing less than or equal to 16 ft² skylight, enter NA

(2) West includes any vertical fenestration oriented to within 45 degrees of true west, including 45 degrees south of west. For skylights, west also includes any skylight area facing any direction with a pitch of less than 1:12

4. Existing Fenestration Area for All Orientations: Enter the area, in square feet, of the existing fenestration/glazing.
Existing West-Facing Fenestration Area: Enter the area, in square feet (ft²), of the existing west-facing fenestration/glazing. If project has no existing west-facing fenestration then enter "0".
5. Maximum Allowed U-factor: Maximum U-factor from Table 150.1-A, Package A. This field will almost always be 0.30 unless the U-factor will be the area weighted average, CF1R-ENV-02-E, with other higher fenestration windows. For skylights this will be 0.55.

NOTE: (1) If meeting Exception 2 to Section 150.2(b)1A (adding less than or equal to 16 square feet (ft²) skylights), enter 0.55.

(2) If meeting Exception 1 to Section 150.2(b)1B (replacing less than or equal to 75 square feet (ft²) windows), enter 0.40.

(3) If meeting Exception 2 to Section 150.2(b)1B (replacing skylights), enter 0.55.

6. Maximum Allowed SHGC: Maximum solar heat gain coefficient (SHGC) from Table 150.1-A. This field will almost always be either 0.23 or N/A, depending on climate zone. N/A means there is no maximum SHGC required in this climate zone. The SHGC will be the area weighted average, CF1R-ENV-02-E, with other higher fenestration windows. For skylights this will be 0.30.

NOTE: (1) If meeting Exception 2 to Section 150.2(b)1A (adding less than or equal to 16 square feet (ft²) skylights), enter 0.30.

(2) If meeting Exception 1 to Section 150.2(b)1B (replacing less than or equal to 75 square feet (ft²) windows), enter 0.35.

(3) If meeting Exception 2 to Section 150.2(b)1B (replacing skylights), enter 0.30.

7. Comments: Note any special location or comment here.

E. Fenestration/Glazing Proposed Areas and Efficiencies - Add (Section 150.2(b)1A)

1. Tag/ID: A label (if any) from the plans, such as W1.
2. Fenestration Type: Indicate the type of fenestration construction e.g., Fixed Window, Operable Window, or Skylight.

NOTE: Doors with glazing are counted in one of two ways. A door with 25 percent or more glazing is considered a glazed door and is counted as the entire door area. A door with less than 25 percent glazing can be counted as the entire door area or can be calculated as the actual glass area with a 2-inch (0.17 ft²) frame all around.

3. Frame type: Metal, metal thermal break, or nonmetal.
4. Dynamic Glazing: Indicate if the fenestration has integrated shading device, chromogenic glazing or none for no dynamic glazing. Chromogenic glazing shall be considered separately from other fenestration types.
5. Orientation (North, East, South, West): The definitions in the Energy Standards include these specific details -
 - North is oriented to within 45 degrees of true north, including 45 degrees east of north;
 - East is oriented to within 45 degrees of true east, including 45 degrees south of east;
 - South is oriented to within 45 degrees of true south, including 45 degrees west of south;
 - West is oriented to within 45 degrees of true west, including 45 degrees north of west.

NOTE: Skylights in a roof pitch greater than 1:12 can be included as facing the same orientation as that portion of the roof angle. If the skylight is in a roof with a pitch less than 1:12, the skylight is assumed to face west.

6. Number of Panes: Indicate the number of panes for each Tag/ID; is it single, double, or triple pane window?
7. Proposed Fenestration Area (ft²): Indicate the area in square feet (ft²) of each exterior fenestration type, excluding west-facing fenestration.
8. Proposed West Facing Fenestration Area (ft²): In climate zones 2, 4, 6-15, indicate the area in square feet (ft²) of each exterior west-facing fenestration type separately.
9. Proposed U-factor: Enter (a) the National Fenestration Rating Council (NFRC) U-factor based on the proposed brand and type of fenestration using [NFRC certified values](#), (b) the default value from Table 110.6-A or Equation NA6-1, or (c) the weighted average U-factor calculated on form CF1R-ENV-02-E.

For the exceptions, up to 3 square feet (ft²) of tubular skylights and up to 3 ft² of glazing in a door enter N/A, and for up to 16 ft² of skylight, enter 0.55. If any products (other than the exceptions) have a higher U-factor than 0.30, first complete a form CF1R-ENV-02 to calculate the area-weighted average U-factor and attach it to this CF1R.

NOTE: Dynamic glazing is a glazing system that changes its performance U-factor and SHGC based on the physical environment. Dynamic glazing includes chromogenic glazing or integrated shading systems (this does not include internally or externally mounted shading devices). If using dynamic glazing, use the lowest tested U-factor and solar heat gain coefficient (SHGC) in Columns 9 and 11.

10. Proposed U-factor Source: National Fenestration Rating Council (NFRC), Table 110.6-A, Equations NA6-1, or Area-Weighted Average Worksheet (ENV-02). The source of the U-factor data for the fenestration product.
11. Proposed SHGC: In climate zones 2, 4, 6-15 enter the solar heat gain coefficient (SHGC) from (a) National Fenestration Rating Council (NFRC), or (b) default value from Table 110.6-B or Equation NA6-2, or (c) the weighted average SHGC calculated on form CF1R-ENV-02.

For the exceptions – up to 3 square feet (ft²) of tubular skylights and up to 3ft² of glazing in a door, enter N/A; up to 16ft² of skylight, enter 0.30. If any products (other than the exceptions) have a higher SHGC than required by Table 150.1-A, first complete a form CF1R-ENV-02 to calculate the area-weighted average SHGC and attach it to this CF1R.

12. Proposed SHGC Source: National Fenestration Rating Council (NFRC), Table 110.6-A, Equations NA6-1, or Area-Weighted Average Worksheet (ENV-02). The source of the U-factor data for the fenestration product.
13. Exterior Shading Device: If exterior shading devices are used to meet the SHGC requirement, indicate the type of device (from Table S-1 of CF1R-ENV-03 Solar Heat Gain Coefficient Worksheet) and attach an ENV-03.

NOTES:

- (1) An exterior shading device is not used for products with an NFRC rated U-factor and SHGC; based on a factory integrated shading device.
 - (2) If using an overhang for south-facing glazing, the glazing must be fully shaded at solar noon on August 21 and substantially exposed to direct sunlight at solar noon on December 21 (see Residential Compliance Manual, Section 3.3.6.3).
14. Combined SHGC from CF1R-ENV-03: If exterior shading devices are combined with the solar heat gain coefficient (SHGC) value of the fenestration to meet the prescriptive SHGC requirements (as indicated by a value in column E. 13), indicate the SHGC calculated on form CF1R-ENV-03 and attach the form for each window with an exterior shading device.

To determine compliance with allowable fenestrations areas and efficiencies, complete rows 15-32.

15. Total Proposed Fenestration Area: Enter the sum of the existing (D04a) and proposed fenestration areas for all orientations (E07 + E08). For project scopes: Add Fenestration/Glazing less than or equal to 75 square feet (ft²) and/or Add Fenestration/Glazing less than or equal to 16 ft², enter NA.
16. Maximum Allowed Fenestration Area: Enter the maximum allowed fenestration area for all orientations, from D02.
17. Is the Total Proposed Fenestration Area less than or equal to the Maximum Allowed Fenestration Area: Indicate Yes if the Total Proposed Fenestration Area is less than or equal to the Maximum Allowed Fenestration Area. If No, the project fails prescriptive compliance – specified fenestration areas must be reduced, or compliance may be attempted using the performance approach.

NOTE: If Total Proposed Fenestration Area equals NA, Design Complies - Indicate Yes.

18. Total Proposed West-Facing Fenestration Area: Enter the sum of the existing (D04b) and proposed west-facing fenestration areas (E08). For project scopes: Add Fenestration/Glazing less than or equal to 75 square feet (ft²) and/or Add Fenestration/Glazing less than or equal to 16 ft², enter NA.
19. Maximum Allowed West-Facing Fenestration Area: Enter the maximum allowed west-facing fenestration area only, from D03.
20. Is the Total Proposed Fenestration Area less than or equal to the Maximum Allowed West-Facing Fenestration Area: Indicate Yes if the Total Proposed West-Facing Fenestration Area is less than or equal to the Maximum Allowed West-Facing Fenestration Area. If No, the project fails prescriptive compliance – specified west-facing fenestration areas must be reduced, or compliance may be attempted using the performance approach.

NOTE: If Total Proposed West-Facing Fenestration Area equals NA, Design Complies - Indicate Yes.

21. Proposed Fenestration U-factor (Windows): If necessary, report the area-weighted average U-factor from the completed CF1R-ENV-02. Otherwise, report the single largest associated value from column E09.
22. Required Fenestration U-factor (Windows): Enter the Maximum Allowed U-factor (D05a).
23. Is the Proposed Fenestration U-factor less than or equal to the Required Fenestration U-factor: Indicate Yes if the Proposed Fenestration U-factor is less than or equal to the Required Fenestration U-factor. If No, the project fails prescriptive compliance – specified fenestration U-factor must be reduced, or compliance may be attempted using the performance approach.
24. Proposed Fenestration SHGC (Windows): If necessary, report the area-weighted average SHGC from the completed CF1R-ENV-02. Otherwise, report the single largest associated value from column E11 or E14.
25. Required Fenestration SHGC (Windows): Enter the Maximum Allowed solar heat gain coefficient (SHGC) (D06a).
26. Is the Proposed Fenestration SHGC less than or equal to the Required Fenestration SHGC: Indicate Yes if the Proposed Fenestration SHGC is less than or equal to the Required Fenestration SHGC. If No, the project fails prescriptive compliance – specified fenestration SHGC must be reduced, or compliance may be attempted using the performance approach.

27. Proposed Fenestration U-factor (Skylights): If necessary, report the area-weighted average U-factor from the completed CF1R-ENV-02. Otherwise, report the single largest associated value from column E09.
28. Required Fenestration U-factor (Skylights): Enter the Maximum Allowed U-factor (D05b).
29. Is the Proposed Fenestration U-factor less than or equal to the Required Fenestration U-factor: Indicate Yes if the Proposed Fenestration U-factor is less than or equal to the Required Fenestration U-factor. If No, the project fails prescriptive compliance – specified fenestration U-factor must be reduced, or compliance may be attempted using the performance approach.
30. Proposed Fenestration SHGC (Skylights): If necessary, report the area-weighted average solar heat gain coefficient (SHGC) from the completed CF1R-ENV-02. Otherwise, report the single largest associated value from column E11 or E14.
31. Required Fenestration SHGC (Skylights): Enter the Maximum Allowed solar heat gain coefficient (SHGC) (D06b).
32. Is the Proposed Fenestration SHGC less than or equal to the Required Fenestration SHGC: Indicate Yes if the Proposed Fenestration solar heat gain coefficient (SHGC) is less than or equal to the Required Fenestration SHGC. If No, the project fails prescriptive compliance – specified fenestration SHGC must be reduced, or compliance may be attempted using the performance approach.

~~F. Fenestration/Glazing Proposed Areas and Efficiencies – Replace (Section 150.2(b)1B)~~

- ~~1. Tag/ID: A label (if any) from the plans, such as W1.~~
- ~~2. Fenestration Type: Indicate the type of fenestration construction (e.g., Fixed Window, Operable Window, or Skylight).~~

~~NOTE: Doors with glazing are counted in one of two ways. A door with 25 percent or more glazing is considered a glazed door and is counted as the entire door area. A door with less than 25 percent glazing can be counted as the entire door area or can be calculated as the actual glass area with a 2-inch (0.17 ft²) frame all around.~~

- ~~3. Frame Type: Metal, metal thermal break, or nonmetal.~~
- ~~4. Dynamic Glazing: Indicate if the fenestration has integrated shading device, chromogenic glazing or none for no dynamic Glazing.~~

~~NOTE: Chromogenic glazing shall be considered separately from other fenestration types.~~

- ~~5. Orientation (North, East, South, West): The definitions in the Energy Standards include these specific details –~~
 - ~~• North is oriented to within 45 degrees of true north, including 45 degrees east of north;~~
 - ~~• East is oriented to within 45 degrees of true east, including 45 degrees south of east;~~
 - ~~• South is oriented to within 45 degrees of true south, including 45 degrees west of south;~~
 - ~~• West is oriented to within 45 degrees of true west, including 45 degrees north of west.~~

~~NOTE: Skylights in a roof pitch greater than 1:12 can be included as facing the same orientation as that portion of the roof angle. If the skylight is in a roof with a pitch less than 1:12, the skylight is assumed to face west.~~