ALTERNATIVE DEFAULT FENESTRATION PROCEDURE (NA6) WORKSHEET

CALIFORNIA ENERGY COMMISSION

CEC- CF1R-ENV-05-E

SAMPLE FORM – NOT VALID FOR SUBMISSION TO BUILDING DEPARTMENTS

Project Name:	Enforcement Agency:
Dwelling Address:	Permit Number:
City and Zip Code:	Permit Application Date:

A. General Information

01	Conditioned Floor Area	
02	5% of the Conditioned Floor Area	
03	Total Allowed Non-Rated Site-built Fenestration Area	
04	Proposed Area of Site-built Fenestration	

B. Fenestration/Glazing Area

01	02
Tag/Identification	Area (ft^2)

C. Default U-factor Using Reference Appendices, Nonresidential Appendix NA6, Equation NA6-1

Equation NA6-1: $U_T = C_1 + (C_2 \times U_C)$

01	02	03	04	05	06	07	08
Tag/Identification	Product Type	Frame Type	C_1 from Table NA6-5	C_2 from Table NA6-5	Center of Glass U-factor (U_C)	Source	Total Performance U-factor (U_T)

Table NA6-5 – U-factor Coefficients from Reference Appendices, Nonresidential Appendix NA6

Product Type	Frame Type	C_1	C_2
Site-built Vertical Fenestration	Metal	0.311	0.872
	Metal Thermal Break	0.202	0.867
	Nonmetal	0.202	0.867
Skylights with a Curb	Metal	0.711	1.065
	Metal Thermal Break	0.437	1.229
	Nonmetal	0.437	1.229
Skylights with no Curb	Metal	0.195	0.882
	Metal Thermal Break	0.310	0.878
	Nonmetal	0.310	0.878

D. Default Solar Heat Gain Coefficient (SHGC) Using Reference Appendices, Nonresidential Appendix NA6, Equation NA6-2

Equation NA6-2: $SHGC_T = 0.08 + (0.86 \times SHGC_C)$

01	02	03	04
Tag/Identification	Center of Glass SHGC ($SHGC_C$)	Source	Total Performance SHGC ($SHGC_T$)

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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/AEA/ECC 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 shall be made available to the enforcement agency for all applicable inspections. I will take the necessary steps to accomplish this requirement.
6. 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. I will take the necessary steps to accomplish these requirements.

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-ENV-05-E Instructions

The Alternative Default Fenestration Procedure (ADFP) option is available only when nonrated site-built fenestration is being installed in a residential dwelling. For residential site-built fenestration up to 250 square feet (ft^2) or 5% time the conditioned floor area (CFA), whichever is greater shall meet sections §110.6(a)2 and §110.6(a)3 of the Energy Standards.

This worksheet is used to calculate U-factor and solar heat gain coefficient (SHGC) for site-built fenestration/glazing.

A. General Information
1. Conditioned Floor Area: The total conditioned floor area (CFA) in square feet (ft^2), as measured from the outside of the exterior walls.
2. 5% of the Conditioned Floor Area: This value is auto-filled based on the following equation (CFA x 0.05).
3. Total Allowed Non-Rated Site-built Fenestration Area: This is the greater of 250 ft^2 or 5% of the conditioned floor area.
4. Proposed Area of Site-built Fenestration: This value is auto-filled with the sum total of column B02.

B. Fenestration/Glazing Area
1. Tag/Identification: Auto-filled from CF1R.
2. Area (ft^2): Auto-filled from CF1R.

C. Default U-factor Using Reference Appendices, Nonresidential Appendix NA6, Equation NA6-1
1. Tag/Identification: Auto-filled from Section B.
2. Product Type: Using the drop down menu, indicate the type of product (e.g., Site-Built Vertical Fenestration, Skylights with Curb, or Skylight with no Curb).
3. Frame Type: Using the drop down menu, indicate the type of frame (e.g., Metal, Metal Thermal Break, or Nonmetal).
4. Coefficient 1 (C_1) from Table NA6-5: Based on the Product and Frame Type selected, enter the corresponding coefficient from Table NA6-5.
5. Coefficient 2 (C_2) from Table NA6-5: Based on the Product and Frame Type selected, enter the corresponding coefficient from Table NA6-5.
6. Center of Glass U-factor: Enter the *Center of Glass U-factor*.
7. Source: Using the drop down menu, indicate where the *Center of Glass U-factor* information was derived from (e.g., Manufacturer's spec sheet or National Fenestration Rating Council's (NFRC) Computer Modeling Approach Software Tool (CMAST)).
8. Total Performance U-factor: This value is auto-filled based on Equation NA6-1 [$U_T = C_1 + (C_2 \times U_C)$].

D. Default Solar Heat Gain Coefficient (SHGC) Using Reference Appendices, Nonresidential Appendix NA6, Equation N6-2
1. Tag/Identification: Auto-filled from Section B.
2. Center of Glass SHGC: Enter the *Center of Glass SHGC*.
3. Source: Using the drop down menu, indicate where the *Center of Glass SHGC* information was derived from (e.g., Manufacturer's spec sheet or National Fenestration Rating Council's (NFRC) Computer Modeling Approach Software Tool (CMAST))

4. Total Performance SHGC: This value is auto-filled based on Equation NA6-2 [$SHGC_T = 0.08 + (0.86 \times SHGC_C)$].

Documentation Declaration Statements

1. The person who prepared the CF1R will sign and complete the fields for their name, company (if applicable), address, phone number, certification information (if applicable), date and signature (may be electronic).
2. The person who is assuming responsibility for the project being built to comply with Title 24, Part 6, will complete the fields for their name, company (if applicable), address, phone number, license number (if applicable), date and signature (may be electronic).

Registration

1. The CF1R must be registered with an ECC-provider prior to submitting for a building permit. See Single-Family Compliance Manual.