U-FACTOR AND SHGC FENESTRATION CERTIFICATE LABEL FC-1/FC-2

PROJECT INFORMATION Form 1 of ____

PROJECT NAME:	DATE:
PROJECT ADDRESS:	CLIMATE ZONE:

Option 1: For buildings with less than 10,000 ft^2 of site-built fenestration may optionally use either CEC Default Tables 116-A and 116-B, Method 1, or the Alternative Calculation Nonresidential Reference Appendix NA6, Method 2.

Option 2: For buildings with greater 10,000 ft^2 of site-built fenestration only one option is available; use CEC Default Tables 116-A and 116-B. Use Method 1 only.

A separate (FC-1/FC-2) Label Certificate Form is required for each different fenestration product line. Unlabeled manufactured fenestration products including skylights and exterior doors shall meet the air infiltration requirements of §116(a)1 of the 2008 California Energy Efficiency Standards applicable to Residential and Nonresidential Buildings.

Enter the U-factor$_t$ and SHGC$_t$ in the following boxes after completing Method 1 or 2 below.

U-factor$_t$ =	**SHGC$_t$ =**

PRODUCT LINE INFORMATION (Complete a separate Label Certificate for each fenestration product line is required)

Total Number of units for the same product line:		Total square footage of this product line:	
Schedule location on the building plans – Reference page:		Total Fenestration Area (ft^2) on project:	
Location(s) on building: S, N, E, W			

☐ **Method 1** (For fenestration either less than or greater than or equal to 10,000 ft^2)

U-FACTOR INFORMATION FROM DEFAULT See TABLE 116-A:

Frame Type	☐ Metal	☐ Metal With Thermal Break	☐ Nonmetal		
Product Type	☐ Operable	☐ Fixed	☐ Greenhouse/ Garden Window	☐ Doors	☐ Skylights
Glazing Type	☐ Single Pane	☐ Double Pane	☐ Glass Block		Insert value in the default U-factor gray box above

SOLAR HEAT GAIN INFORMATION FROM DEFAULT See TABLE 116-B:

Product Type	☐ Operable	☐ Fixed		
Glazing:	☐ Clear	☐ Tinted		Insert value in the default SHGC$_t$ gray box above

☐ **Method 2** (For fenestration less than 10,000 ft^2) **Reference Nonresidential Appendix NA6**

GLAZING INFORMATION: Alternative Calculation < less than 10,000 ft^2

STEP 1: *Determine U-Factor:*	Enter U-factor from Equation NA6-1 above in the gray box next to U-factor		
STEP 2: *Determine SHGC$_t$:*	Use Center of Glass, SHGCc, in the equation below to determine the solar heat gain coefficient with frame		
Enter Center of Glass, COG, from Manufacturer's Documentation, SHGCc			Insert Center of Glass value here
Calculate the new SHGC$_t$ of the frame.	SHGC$_t$ = 0.08 + (0.86 x SHGCc) =		Insert calculated result value here and in above gray box next to SHGC$_t$

STEP 3: ATTACHED MANUFACTURER'S LITERATURE:

Manufacturer's literature must be attached showing the Product Type, Frame Type, Glazing, Center Of Glass(COG) U-factor, and SHGC$_c$ information needed to determine the Default U-factor$_t$ and SHGC$_t$.

PARTY TAKING RESPONSIBILITY FOR FENESTRATION COMPLIANCE:

CONTACT PERSON:	
COMPANY NAME and ADDRESS:	
PHONE:	FAX:
SIGNATURE:	LICENSE # (if Applicable)