



State Contractors Lic. #711535
LA Fabricators Lic. #1637

Plan Check Information

The Plan Checker Requires an ICC or ESR#.

Sun Valley Skylights, Inc., custom-fabricates its own skylight systems. As such, these skylights do not carry an ICC or ESR number and are not NFRC tested, rated, or labeled. However, the 2022 California Energy Code (Title 24, NA6-1) permits performance values to be determined using the Alternate Default Fenestration Procedure (ADFP). Please refer to the notes below for additional details.

There are two types of fenestration categories listed in the 2022 California Energy Code (CEC) that skylights fall under, as follows:

3.3.1.4 Fenestration Subcategories (2022 CEC)

A. Manufactured fenestration

*A fenestration product made from materials that are factory-cut or factory-formed with the specific intent of fabricating a fenestration unit. This includes products assembled in the factory. Knocked-down or partially assembled units sold as fenestration products must have **temporary and permanent labels**, per § 10-111; those without such labels are considered **site-built fenestration** under § 10-111*

Most manufactured fenestration products, such as Velux skylights, are structurally tested and labeled in accordance with recognized standards, including AAMA, WDMA, ASTM, and NFRC. Some models may also be covered under Uniform Evaluation Service (ES) Reports. These factory-manufactured units are typically limited in size, with maximum dimensions generally around 46" x 46" or 24" x 72" (approximate).

B. Site-built fenestration

*Fenestration systems designed for **field glazing or field assembly** but using components like factory-cut framing and glazing. Examples encompass storefronts, curtain walls, large-track sliding glass walls, and atrium roof systems.*

The skylights provided by Sun Valley Skylights are classified as Site-Built Fenestration products. Our frames are fabricated in-house using engineered aluminum extrusions, and the glass is sourced from a trusted supplier. These systems are assembled on-site, with the frames installed first, followed by glass installation at the job location.

The Plan Checker Wants Proof Of Compliance With Very High Fire Hazard Severity Zones (VHFHSZ)

Exterior skylights fabricated by Sun Valley Skylights, Inc. incorporate Insulated Glass Units (IGUs) consisting of a tempered outboard lite, a ½" air or argon spacer, and a clear heat-strengthened laminated inboard lite with a PVB interlayer. In compliance with the California Building Code (CBC) Chapter 708A.2, these skylights meet the glazing requirements for use in Very High Fire Hazard Severity Zones (VHFHSZ) provided they are installed as part of a Class A roof assembly using non-combustible flashing materials.

It is the responsibility of the general contractor, roofing contractor, or other designated trade professionals to supply and install the Class A roofing system and non-combustible flashing to maintain code compliance. Sun Valley Skylights, Inc. (SVS) is not responsible for the supply, installation, or performance of these components.

Disclaimer: *The information provided herein is for general reference only and is not intended to serve as a guarantee or assurance that the project will pass plan check or receive approval from any governing agency. Final approval is at the discretion of the authority having jurisdiction.*

SECTION 110.6 – MANDATORY REQUIREMENTS FOR FENESTRATION PRODUCTS AND EXTERIOR DOORS

(a) **Certification of fenestration products and exterior doors other than field-fabricated.** Any fenestration product and exterior door, other than field-fabricated fenestration products and field-fabricated exterior doors, may be installed only if the manufacturer has certified to the Commission, or if an independent certifying organization approved by the Commission has certified, that the product complies with all of the applicable requirements of this subsection.

1. **Air leakage.** Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft² of window area, 0.3 cfm/ft² of door area for residential doors, 0.3 cfm/ft² of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft² for nonresidential double doors (swinging), when tested according to NFRC-400 or ASTM E283 at a pressure differential of 75 pascals (or 1.57 pounds/ft²), incorporated herein by reference.

NOTES TO SECTION 110.6(a)1: Pet doors must meet 0.3 cfm/ft² when tested according to ASTM E283 at 75 pascals (or 1.57 pounds per square foot). AAMA/WDMA/CSA 101/I.S.2/A440-2011 specification is equivalent to ASTM E283 at a pressure differential of 75 pascals (or 1.57 pounds per square foot) and satisfies the air leakage certification requirements of this section.

Exception to Section 110.6(a)1: Field-fabricated fenestration and field-fabricated exterior doors.

2. **U-factor.** The fenestration product and exterior door's U-factor shall be rated in accordance with NFRC 100, or use the applicable default U-factor set forth in Table 110.6-A.

Exception 1 to Section 110.6(a)2: If the fenestration product is a skylight in a building covered by the nonresidential standards with less than 200 square feet of skylight area, the default U-factor may be calculated as set forth in Reference Nonresidential Appendix NA6.

Exception 2 to Section 110.6(a)2: If the fenestration product is an alteration consisting of any area replacement of glass in a skylight product in a building covered by the nonresidential standards, the default U-factor may be calculated as set forth in Reference Nonresidential Appendix NA6.

3. **Solar heat gain coefficient SHGC.** The fenestration product's SHGC shall be rated in accordance with NFRC 200, or use the applicable default SHGC set forth in TABLE 110.6-B.

EXCEPTION 1 to Section 110.6(a)3: If the fenestration product is a skylight in a building covered by the nonresidential standards with less than 200 square feet of skylight area, the default SHGC may be calculated as set forth in Reference Nonresidential Appendix NA6.

EXCEPTION 2 to Section 110.6(a)3: If the fenestration product is an alteration consisting of any area replacement of glass in a skylight product in a building covered by the nonresidential standards, the default SHGC may be calculated as set forth in Reference Nonresidential Appendix NA6.

4. **Visible transmittance (VT).** The fenestration product's VT shall be rated in accordance with NFRC 200 or ASTM E972, for tubular daylighting devices VT shall be rated using NFRC 203.

Exception 1 to Section 110.6(a)4: If the fenestration product is a skylight in a building covered by the nonresidential standards with less than 200 square feet of skylight area, the default VT may be calculated as set forth in Reference Nonresidential Appendix NA6.

Exception 2 to Section 110.6(a)4: If the fenestration product is an alteration consisting of any area; replacement of glass in a skylight product in a building covered by the nonresidential standards, the default VT may be calculated as set forth in Reference Nonresidential Appendix NA6.

5. **Labeling.** Fenestration products and exterior doors shall:

- A. Have a temporary label for manufactured fenestration products and exterior doors or a label certificate when the Component Modeling Approach (CMA) is used and for site-built fenestration meeting the requirements of Section 10-111(a)1. The temporary label shall not be removed before inspection by the enforcement agency; and

B. Have a permanent label or label certificate when the Component Modeling Approach (CMA) is used and for site-built fenestration meeting the requirements of Section 10-111(a)2 if the product is rated using NFRC procedures.

6. **Fenestration acceptance requirements.** Before an occupancy permit is granted site-built fenestration products in other than single-family buildings shall be certified as meeting the Acceptance Requirements for Code Compliance, as specified in the Reference Nonresidential Appendix NA7 to ensure that site-built fenestration meets Standards requirements, including a matching label certificate for product(s) installed and be readily accessible at the project location. A certificate of acceptance certifying that the fenestration product meets the acceptance requirements shall be completed, signed and submitted to the enforcement agency.

Exception to Section 110.6(a): Fenestration products removed and reinstalled as part of a building alteration or addition.

- (b) **Installation of field-fabricated fenestration and exterior doors.** Field-fabricated fenestration and field-fabricated exterior doors may be installed only if the compliance documentation has demonstrated compliance for the installation using U-factors from Table 110.6-A and SHGC values from Table 110.6-B. Field-fabricated fenestration and field-fabricated exterior doors shall be caulked between the fenestration products or exterior door and the building, and shall be weatherstripped.

Exception to Section 110.6(b): Unframed glass doors and fire doors need not be weatherstripped or caulked.