

# ICC-ES Evaluation Report

**ESR-5066**

Issued February 2024


This report also contains:

**- LABC Supplement**

Subject to renewal February 2025

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<p><b>DIVISION: 08 00 00 – OPENINGS</b></p> <p><b>Section: 08 62 00 – Unit Skylights</b></p> <p><b>08 63 00 – Metal-Framed Skylights</b></p> <p><b>08 81 00 – Glass Glazing</b></p>	<p><b>REPORT HOLDER: GLAZING VISION, INC.</b></p>	<p><b>EVALUATION SUBJECT: FLUSHGLAZE ROOFLIGHT</b></p>	
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## 1.0 EVALUATION SCOPE

**Compliance with the following codes:**

- 2021 [International Building Code® \(IBC\)](#)
- 2021 [International Residential Code® \(IRC\)](#)

For evaluation for compliance with codes adopted by [Los Angeles Department of Building and Safety \(LADBS\)](#), see [ESR-5066 LABC and LARC Supplement](#).

**Properties evaluated:**

- Structural
- Air Infiltration
- Water Penetration Resistance

## 2.0 USES

The Flushglaze Rooflight has been shown to comply with IBC Section 2405.5 and IRC Section 308.6. The Flushglaze Rooflight is used in nonclassified roofing assemblies where fire-resistance rated construction is not required.

## 3.0 DESCRIPTION

The Flushglaze Rooflight is a fixed, double glazed, curb mount insulated unit rooflight designed to provide maximum daylight with minimum visible internal structure and has a Performance Grade (PG) of 50. The Flushglaze Rooflight consists of a single-lite top (or exterior) and bottom (or inner) glass pane, spacers, gaskets, setting blocks, silicone and backer rods supported by aluminum (6063 T6) T-shape extrusions along the entire perimeter. The Flushglaze Rooflight may be fabricated with a laminated bottom pane. The Flushglazed Rooflight is available in various sizes. [Figures 1A](#) through [1D](#) show a Flushglaze Rooflight having a double glazed unit with a laminated inner pane. The product specifications are as noted in the approved quality control documents.

### 3.1 Glass Panes:

The top and bottom glass panes must be nominal 6-mm-thick (1/4 inch) minimum HST Toughened or heat strengthened glass, complying with ASTM C1172 and comply with Category II of CPSC 16 CFR Part 1201 or

Class A of ANSI Z97.1. The bottom glass panes are coated to provide low E value. The top glass interior face shall have a coating for solar control when the bottom glass pane does not have a low E coating.

### 3.2 Silicone:

The silicone must comply with ASTM C920 Type S, Grade NS, Class 50, Use NT, G and A and ASTM C1184.

### 3.3 Interlayer:

When bottom glass panes are laminated glass panes, the interlayer must be a minimum of 0.03 inch (0.76 mm) and must have a minimum shear modulus of 70 psi (0.48 MPa) for temperature, T, less than and equal to 122°F (T ≤ 50°C).

## 4.0 DESIGN AND INSTALLATION

### 4.1 Design:

The Flushglaze Rooflight, fabricated with 6-mm-thick (<sup>1</sup>/<sub>4</sub> inch) top and bottom glass panes, has a design pressure of 50.13 psf (2400 Pa). The maximum deflection at the allowable loads is less than L/175. Concentrated live loads per Chapter 16 of the IBC must be considered by the registered design professional.

Rooflights constructed with Flushglaze Rooflights meets the air infiltration and water penetration resistance requirements of AAMA/WDMA/CSA 101/1.S.2/A440.

### 4.2 Installation:

Installation must comply with [Figures 1A](#) through [1D](#). The Flushglaze Rooflight must be continuously supported around the entire perimeter with the T-shape extrusions, and the T-shape extrusions must be continuously supported along the 4-inch (102 mm) bottom flange and anchored to the supporting structure.

## 5.0 CONDITIONS OF USE:

The Flushglaze Rooflight described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 Installation shall comply with IBC Section 2405.
- 5.2 All glass panes must comply with Section 3.1 of this report and fabricated and inspected in accordance with ASTM C1172. The glass fabricator must provide certification of compliance with ASTM C1172.
- 5.3 Installation of aluminum in contact with dissimilar materials shall comply with the Aluminum Design Manual (ADM) Section M.7.
- 5.4 The system components, except for the glass, silicone, and fasteners, are supplied by the report holder.
- 5.5 The internal EPDM gasket used as an insulator or thermal break shall not be directly exposed to moisture or sunlight when installed in exterior locations.
- 5.6 Use in fire-resistance rated construction is outside of the scope of this report.
- 5.7 Use in classified roofing assemblies is outside of the scope of this report.
- 5.8 Slip resistance is outside of the scope of this report.
- 5.9 Concentrated live loads are outside of the scope of this report.
- 5.10 Anchorage of the perimeter supports to the supporting structure is outside of the scope of this report.
- 5.11 The Flushglaze Rooflights are manufactured under a quality control system with inspections by ICC-ES.

## 6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with ASTM E72, ASTM E1300 and AAMA/WDMA/CSA 101/1.S.2/A440.
- 6.2 Quality documentation in accordance with the [ICC-ES Acceptance Criteria for Quality Documentation \(AC10\)](#), dated January 2019.

## 7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5066) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.

7.2 In addition, the Flushglaze Rooflight components, except for the glass panels, silicon, and fasteners, are packaged with a label bearing the report holder’s name; and product description.

The glass panels must be identified as specified in this report and the applicable code.

7.3 The report holder’s contact information is the following:

**GLAZING VISION, INC.**  
**201 LOCUST STREET**  
**HARTFORD, CONNECTICUT 06114**  
**(833) 759-3667**  
[www.glassskylights.com](http://www.glassskylights.com)

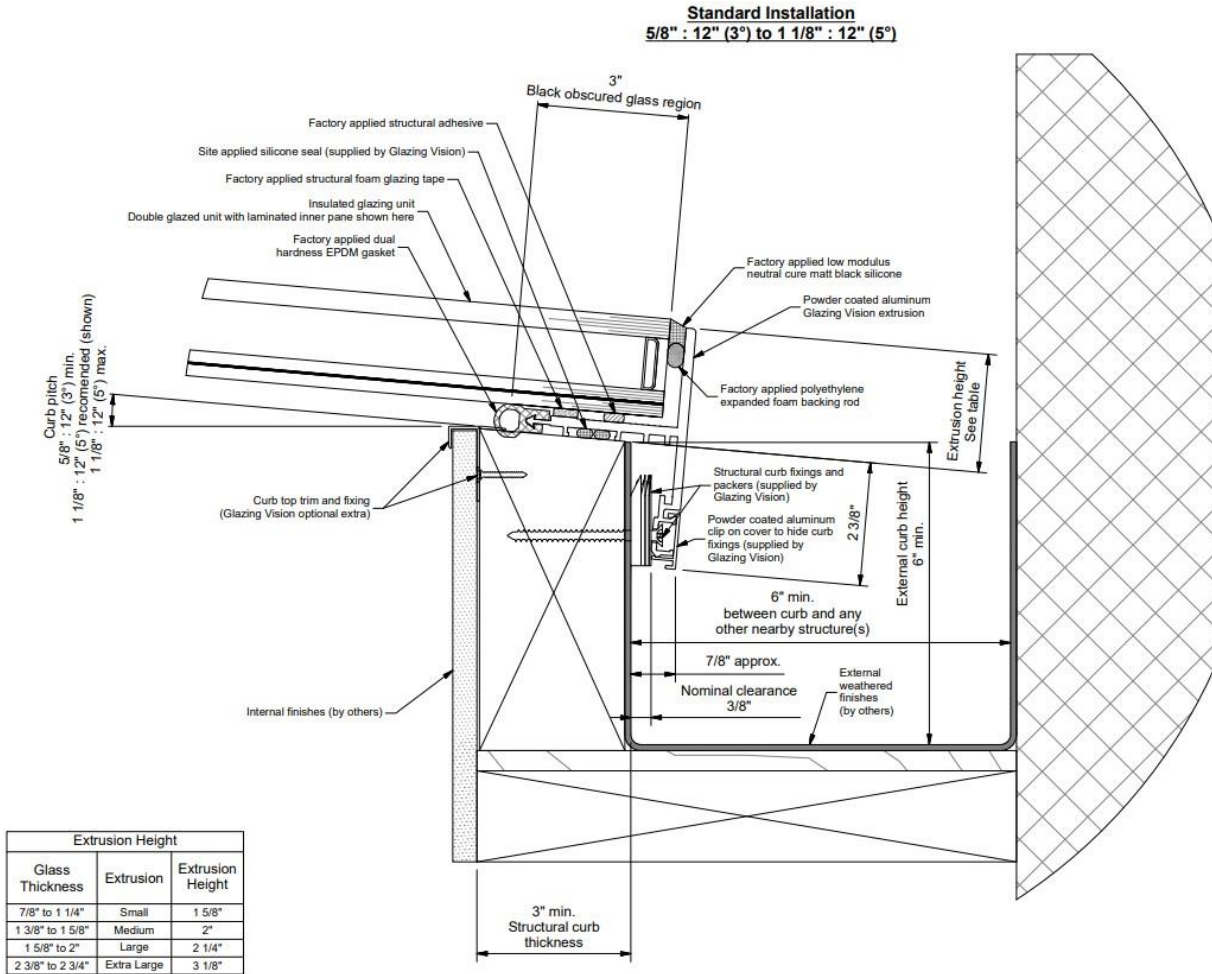
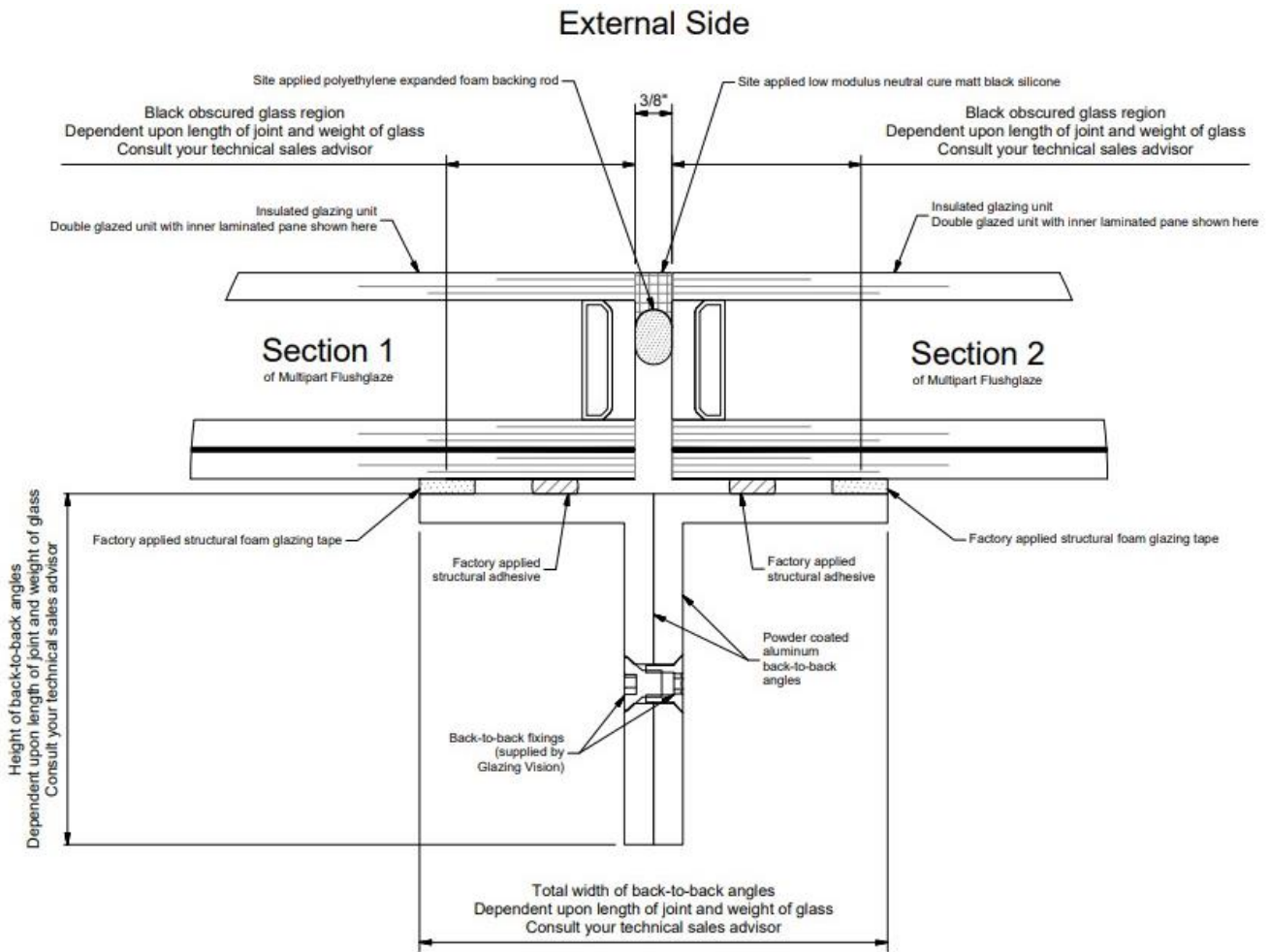
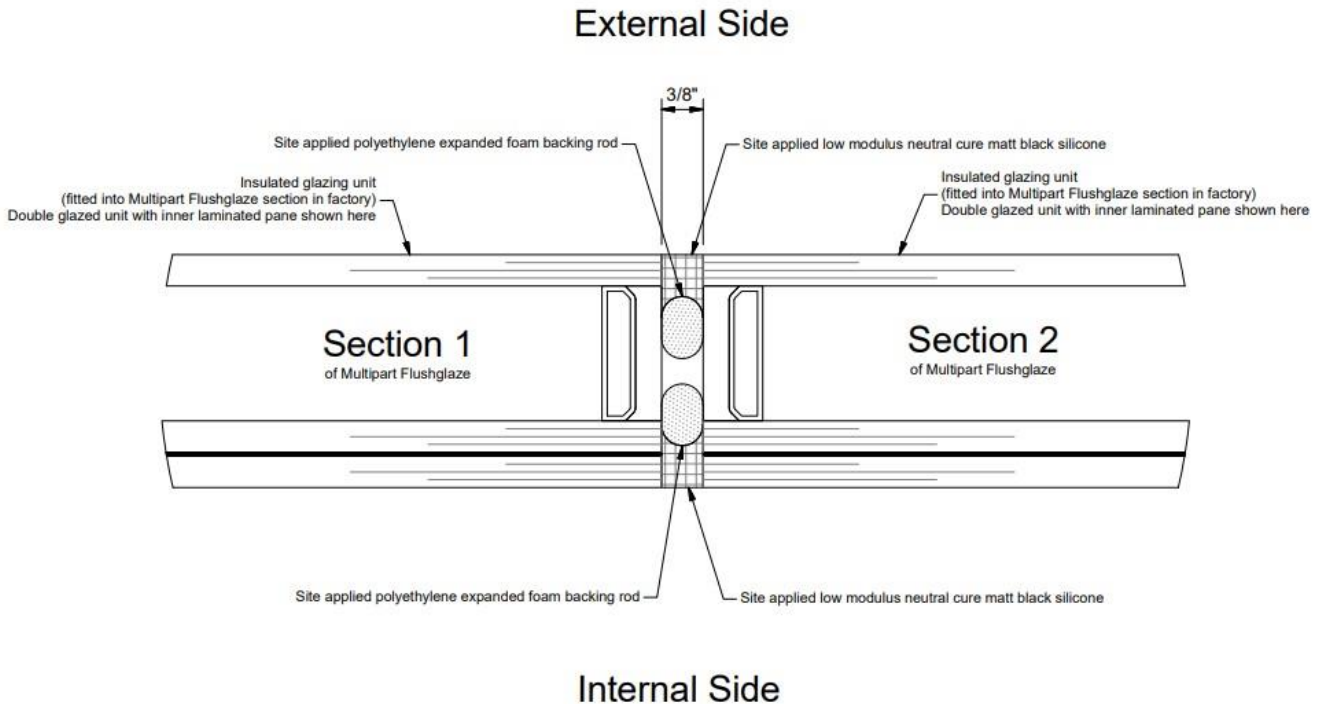


FIGURE 1A—INSTALLATION DETAIL OF FLUSHGLAZE ROOFLIGHT ON ROOFS



**FIGURE 1B—INSTALLATION DETAIL OF JOINT OF FLUSHGLAZE ROOFLIGHT WITH ALUMINIUM SUPPORT**



**FIGURE 1C—INSTALLATION DETAIL FOR SELF-SUPPORT FLUSHGLAZE ROOFLIGHT WITHOUT ALUMINIUM SUPPORT**

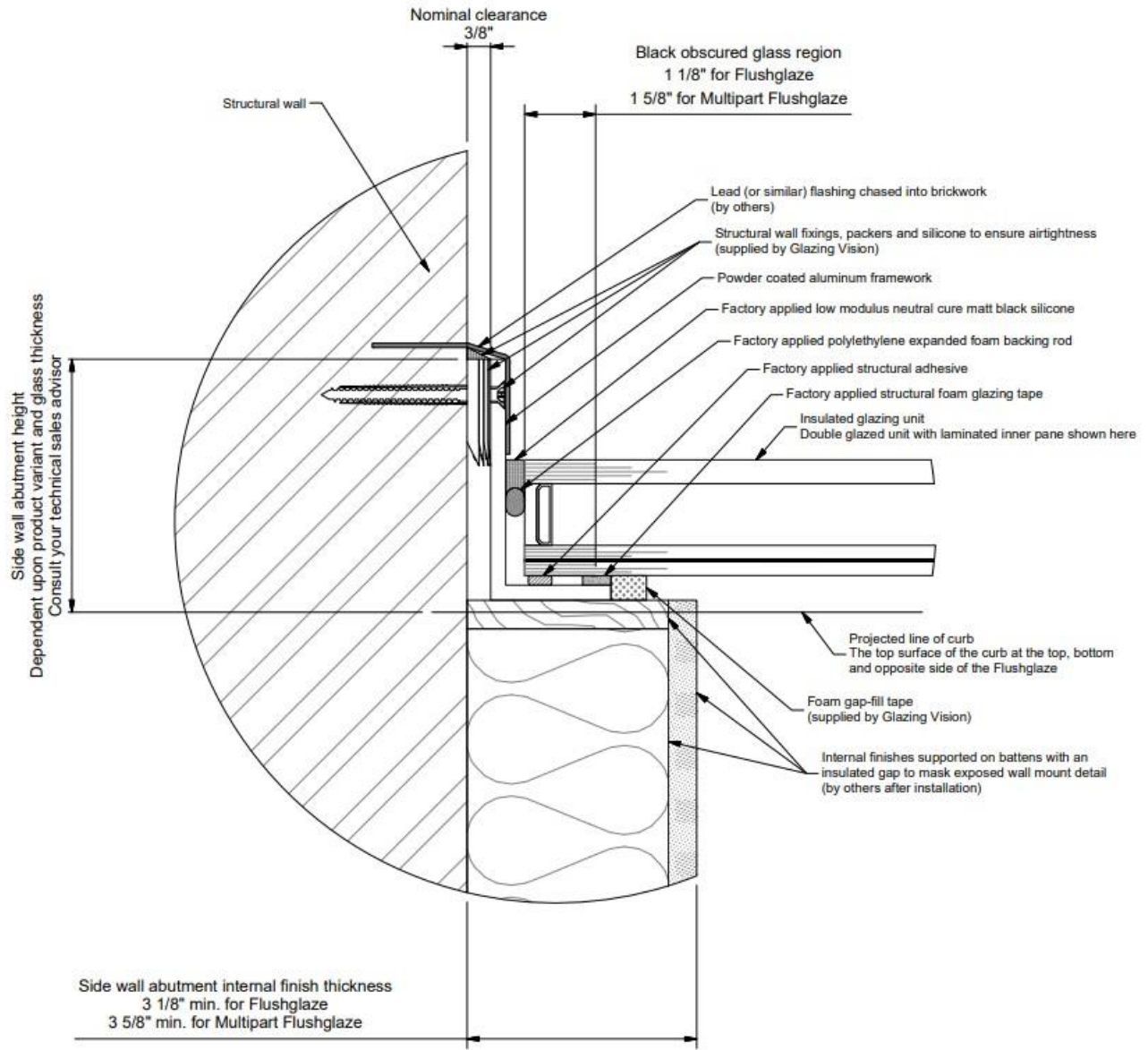


FIGURE 1D—INSTALLATION DETAIL OF FLUSHGLAZE ROOFLIGHT ON WALLS

**DIVISION: 08 00 00—OPENINGS**  
**Section: 08 62 00—Unit Skylights**  
**Section: 08 63 00—Metal-Framed Skylights**  
**Section: 08 81 00—Glass Glazing**

**REPORT HOLDER:**

GLAZING VISION, INC.

**EVALUATION SUBJECT:**

FLUSHGLAZE ROOFLIGHT

**1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that the Flushglaze Rooflight, described in ICC-ES evaluation report [ESR-5066](#), has also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

**Applicable code editions:**

- 2023 *City of Los Angeles Building Code* (LABC)
- 2023 *City of Los Angeles Residential Code* (LARC)

**2.0 CONCLUSIONS**

The Flushglaze Rooflight, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5066](#), complies with the LABC Chapter 24, and the LARC Section R308.6, and is subject to the conditions of use described in this supplement.

**3.0 CONDITIONS OF USE**

The Flushglaze Rooflight described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-5066](#).
- The design, installation, conditions of use and identification of the Flushglaze Rooflight are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report [ESR-5066](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16, 17, and 24 as applicable.

This supplement expires concurrently with the evaluation report, issued February 2024.