

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION SK-25

Effective June 1, 2011

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **August 2012**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code and the Texas Engineering Practice Act.

EZ Series Tubular Skylights, Non-Impact Resistant, manufactured by

ODL Incorporated
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Zeeland, Michigan 49464
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will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions, the design drawings specified in this evaluation report, and this product evaluation report.

PRODUCT DESCRIPTION

The EZ Series Tubular skylights are skylights with a polycarbonate or acrylic dome with aluminum or polyethylene flashing. The tubular skylights specified in this evaluation report are non-impact resistant skylights. This product evaluation report is for tubular skylights based on the following tested constructions:

General Description:

System	Description	Label Rating
1	EZ10SCANH; EZ10SCAK; EZ10PRO3	CW-PG90 (10) Diameter – Type TDD
2	EZ14SCANH; EZPRO3	CW-PG80 (14) Diameter – Type TDD
3	EZ10SCG	CW-PG65 (10) Diameter – Type TDD
4	EZ14SCG	CW-PG50 (14) Diameter – Type TDD
5	EZ10SCMNH; EZ10PRO2	CWW-PG90 (14) Diameter – Type TDD
6	EZ14SCMNH; EZ14PRO2	CWW-PG90 (14) Diameter – Type TDD

Product Dimensions:

System	Dome Size	Reflective Adjustable Tube Size	Glass Diffuser Lens Assembly	Flashing Size
1	10" x 6 $\frac{3}{4}$ "	9 $\frac{1}{2}$ " Diameter	12" Diameter	27" W x 26" L x 10" H
2	14" x 7 $\frac{3}{4}$ "	13 $\frac{1}{2}$ " Diameter	16" Diameter	27" W x 26" L x 10" H

Product Dimensions (continued):

System	Dome Size	Reflective Adjustable Tube Size	Glass Diffuser Lens Assembly	Flashing Size
3	10" x 6 ³ / ₄ "	9 ¹ / ₂ " Diameter	12" Diameter	36" W x 33 ¹ / ₂ " L x 6" H
4	14" x 7 ³ / ₄ "	13 ¹ / ₂ " Diameter	16" Diameter	36" W x 33 ¹ / ₂ " L x 6" H
5	10" x 6 ³ / ₄ "	9 ¹ / ₂ " Diameter	12" Diameter	22" diameter x 6" H
6	14" x 7 ³ / ₄ "	13 ¹ / ₂ " Diameter	16" Diameter	26" diameter x 6" H

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1-2	SG-1 or SG-2	GM-1
3-6	SG-1	GM-1

Note: ¹ See the "Glass Construction Key" for the glazing construction.

² See the "Glazing Method Key" for the glazing method description.

Glass Construction Key:

SG-1: The skylight utilizes a nominal 0.115" thick acrylic dome.

SG-2: The skylight utilizes a nominal 0.115" thick molded polycarbonate dome. The polycarbonate dome utilizes light diffusers and ribs in its construction.

Glazing Method Key:

GM-1: The dome is sealed to aluminum flashing with a 0.472" wide by 0.394" thick closed cell gasket. The dome is secured to the flashing with four equally spaced No. 8 x ³/₄" screws and self-sealing washers.

Flashing:

Systems 1 and 2: The hexagon shaped flashing is constructed of 0.125" thick molded plastic.

Systems 3 and 4: The flashing is constructed of 0.026" thick aluminum. The center hole utilizes a curb that is secured to the flashing with pop-rivets.

Systems 5 and 6: The flashing is constructed of 0.062" thick spun aluminum and utilizes a 90 degree, 6" high upward bend.

Glass Diffuser Lens Assembly Construction: The assembly is constructed of a plastic ceiling ring that is secured to the ceiling with four screws with flip tabs. The face of the plastic ceiling ring against the ceiling utilizes a layer of foam gasket tape along the outer perimeter. The inner perimeter, where the reflective adjustable tube is located, and the inner perimeter of the opposite face of the ceiling ring, where the glass diffuser is located, utilize kerf-mounted hollow bulb seals. Tape is applied to the same surface at three locations to seal three holes through the ceiling ring. The tempered glass diffuser lens is set against a plastic trim piece with a plastic lens on top of the diffuser. The plastic lens interlocked into the plastic trim piece and secured itself and the glass to the plastic trim piece.

Product Identification: A certification program label (Keystone Certification Program) will be affixed to the window. The certification program label includes the product name; performance characteristics; and approved inspection agency (Keystone) to indicate compliance with the requirements of AAMA/WDMA/CSA 101/I.S.2/A440-08.

Label Identification:

System	Model	Certification Authorization Report (CAR) number
1	EZ10SCANH/SCAK/PRO3 Acry/Poly Tubular Skylight	152-103
2	EZ14SCANH/SCAK/PRO3 Acry/Poly Tubular Skylight	152-104
3	EZ10SCG/SCAK/PRO3 Acrylic Dome Alum Tubular Skylight	152-105
4	EZ14SCG/SCAK/PRO3 Acrylic Dome Alum Tubular Skylight	152-106
5	EZ10/14SCMNH/PRO2 Acrylic Tubular Skylight	152-107
6	EZ10/14SCMNH/PRO2 Acrylic Tubular Skylight	152-107

Impact Resistance: These skylight assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These skylight assemblies will need to be protected with an impact protective system when installed in areas where windborne debris is required.

Acceptance of Smaller Assemblies: Skylight assemblies with dimensions equal to or smaller than those specified in this evaluation report are acceptable within the limitations specified in this report.

LIMITATIONS

Design pressures:

System	Dome Size	Design Pressures (psf)
1	10" x 6 $\frac{3}{4}$ "	± 90
2	14" x 7 $\frac{3}{4}$ "	± 80
3	10" x 6 $\frac{3}{4}$ "	± 65
4	14" x 7 $\frac{3}{4}$ "	± 50
5	10" x 6 $\frac{3}{4}$ "	± 90
6	14" x 7 $\frac{3}{4}$ "	± 90

INSTALLATION INSTRUCTIONS

General: The skylight assembly shall be prepared and installed in accordance with the manufacturer's recommended installation instructions, the approved drawings referenced below, and this evaluation report. Detailed installation instructions and component drawings are available from the manufacturer.

Design Drawings: The skylights shall be installed in accordance with Drawing No. TX-4057, titled "ODL Tubular Skylight," sheets 1 through 4 of 4, dated January 18, 2011, signed and sealed by Lyndon F. Schmidt, P.E on January 18, 2011. The stated drawings will be referred to as the approved drawings in this evaluation report.

Roof Deck Construction: The skylights shall be secured to minimum $\frac{7}{16}$ " OSB.

Installation: The skylights shall be installed as specified on Sheets 1 of 4 through 4 of 4 of the approved drawings.

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) and the International Building Code (IBC).