



Product Evaluation

SK06 | 1214

Engineering Services Program

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 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.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: SK-06

Effective Date: December 1, 2014

Re-evaluation Date: December 2017

Product Name: EZ Series and TS Series Tubular Skylights, Impact Resistant

Manufacturer: ODL Incorporated
215 East Roosevelt Ave.
Zeeland, MI 49464
(616) 772-9111

Product Description:

The EZ Series and TS Series Tubular skylights are skylights with a polycarbonate dome with an aluminum flashing. The tubular skylights specified in this evaluation report are impact resistant skylight. This product evaluation report is for tubular skylights based on the following tested construction:

General Description:

System	Description	Label Rating
1	EZ10SCPNH; EZ10PRO	R-PG100 (14) Diameter – Type TDD Missile Level D, Wind Zone 4
2	TS10SVRWE	
3	EZ14SCPNH; EZ14PRO	
4	TS14SVRWE	

Product Dimensions:

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

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1-4	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 molded polycarbonate dome. The polycarbonate dome utilizes light diffusers 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: The flashing is constructed of 0.065" thick aluminum.

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 for the 14" unit and three screws with flip tabs for the 10" unit. 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.

Product Identification: A certification program label (Keystone) will be affixed to the skylight. The certification program label includes the performance characteristics and approved inspection agency to indicate compliance with the requirements of AAMA/WDMA/CSA 101/I.S.2/A440-08 and ASTM E 1886 and ASTM E 1996. The certification program label contains two Certification Authorization Report (CAR) numbers located on the right side of the label. The following CAR numbers and model names are located on the label:

Label Identification:

System	Model	Certification Authorization Report (CAR) numbers	
		ANSI/AAMA/WDMA 101/I.S.2/A440-08	ASTM E 1886 and ASTM E 1996
1, 3	EZ10/14SCP NH/PRO Poly Dome AL Tube Skylight	152-109	152-202
2, 4	TS10/14SVWRE	152-127	152-206

Impact Resistance: These skylight assemblies satisfy TDI's criteria for protection from windborne debris in both the **Inland I zone** and the **Seaward zone**. The skylight assemblies passed Missile Level D specified in ASTM E 1996-05. Install the skylight assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies. No protection is required for these skylight assemblies with an impact protective system.

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, 2	10" x 6-3/4"	± 100
3, 4	14" x 7-3/16"	± 100

Installation Instructions:

- **General:** Prepare and install the skylight assembly 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:** Install the skylights in accordance with Drawing No. TX-4056, titled "ODL Tubular Skylight "EZ" & "TS" Models," sheets 1 through 2 of 2, dated January 18, 2011, revised September 19, 2012, signed and sealed by Lyndon F. Schmidt, P.E on November 8, 2012. This evaluation report refers to the stated drawings as the approved drawings.
- **Roof Deck Construction:** Secure the skylights to minimum 7/16" OSB.
- **Installation:** Install the skylights as specified on Sheets 1 of 2 through 2 of 2 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 IRC, the IBC, and the Texas Revisions.