

TEXAS DEPARTMENT OF INSURANCE

Engineering Services / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION SK-13

Effective June 1, 2004

*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 3 years after the effective date.*

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.

Self Flashing and Curb Mount Skylights, Impact Resistant, manufactured by

Maxim Industries, Inc.
4946 Top Line
Dallas, Texas 75247
Telephone: (214) 905-2024

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

Self-Flashing Model. Consists of an extruded aluminum frame glazed with two polycarbonate (PC) domes. The outer dome is 0.118" thick, clear Hyzod PC with an 8" height. The inner dome is 0.118" thick, clear Hyzod PC with a 4" height. The aluminum skylight frame is mitered and welded. Both domes are secured to the frame with an aluminum retainer angle. The aluminum retainer angle utilizes mitered and welded corner construction. The aluminum retainer angle is secured to the aluminum frame with No. 10 x $\frac{3}{8}$ " stainless steel slotted fasteners located 4" from each corner and spaced a maximum of 10" on center. In addition, the aluminum retainer angle is secured to the aluminum frame with No. 12 x $1\frac{3}{4}$ " stainless steel hex head slotted fasteners at the midspan of the top, bottom, and sides of the aluminum retaining angle.

Curb Mount Model. Consists of an extruded aluminum frame glazed with two polycarbonate (PC) domes. The outer dome is 0.118" thick, clear Hyzod PC with an 8" height. The inner dome is 0.118" thick, clear Hyzod PC with a 4" height. Both domes are secured to the frame with an aluminum retainer angle. The aluminum retainer angle utilizes mitered and welded corner construction. The aluminum retainer angle is secured to the aluminum frame with No. 10 x $\frac{3}{8}$ " stainless steel slotted fasteners located 4" from each corner and spaced a maximum of 11" on center. In addition, the aluminum retainer angle is secured to the aluminum frame with No. 12 x $1\frac{3}{4}$ " stainless steel hex head slotted fasteners at the midspan of the top, bottom, and sides of the aluminum retaining angle.

LIMITATIONS

Design pressure: +60, -60 psf

Skylight Type	Maximum Inside Dimensions	
	Width (in.)	Length (in.)
Self Flashing	48	96
Curb Mount	51 $\frac{3}{4}$	99 $\frac{3}{4}$

Impact Resistance: These skylight assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in both the Inland I zone and the Seaward zone. The skylight assemblies passed Missile Level C specified in ASTM E 1996-99. The skylight assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. These skylight assemblies will not need to be protected 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.

INSTALLATION INSTRUCTIONS

General Installation Requirements: The skylights shall be installed in accordance with the manufacturer's installation instructions and this product evaluation report.

Self-Flashing Model The 3" nailing flange of the skylight shall be attached to wood roof framing (rafters/trusses and/or 2X blocking). The wood roof framing shall be minimum SPF lumber. Fasteners shall be minimum No. 12 pan head screws. The fasteners shall be long enough to penetrate a minimum of 1 $\frac{1}{2}$ inches into the roof framing. The fasteners shall penetrate through pre-punched installation holes located in the aluminum nailing flange. The fasteners shall be spaced 4 inches from each corner and 12 inches on center.

Curb Mount Model The curb shall be constructed of minimum 2X Southern Yellow Pine lumber. The curb shall be tall enough to maintain a minimum of 4" from the bottom of the aluminum retaining angle to the top of the roof covering. The curb shall be attached through the roof sheathing and into either the rafters/roof trusses and/or into minimum 2X blocking. The curb shall be secured to the roof framing to resist the same design pressures required for the skylight. The aluminum frame of the skylight shall be attached to the wood curb. Fasteners shall be minimum No. 12 pan head screws. The fasteners shall be long enough to penetrate a minimum of 1 $\frac{1}{4}$ inches into the wood curb. The fasteners shall penetrate through pre-punched installation holes located in the aluminum frame. The fasteners shall be spaced 4 inches from each corner and 12 inches on center.

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).