

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION SK-18

Effective April 1, 2009

*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 2011**.*

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.

Model DGCM Curb Mount Skylights, Impact Resistant, manufactured by

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1630 Terre Colony Court
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www.maximskylights.com**

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

The Model DGCM skylight is an aluminum frame curb mount skylight. The aluminum frame curb mount skylights evaluated in this report are impact resistant skylights. This product evaluation report is for aluminum frame curb mount skylights based on the following tested constructions:

General Description:

System	Description	Label Rating
1	Model DGCM Curb Mounted Skylight	SKG-C55 61 x 61 ASTM E 1886/ASTM E 1996 Maximum Size Tested: 5'1" x 5'1"

Product Dimensions:

System	Overall Size	Fixed Daylight Opening Size
1	60 $\frac{5}{8}$ " x 61 $\frac{1}{4}$ "	58 $\frac{3}{8}$ " x 56 $\frac{3}{8}$ "

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	IG-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:

IG-1: The skylight contains a sealed insulating glass unit. The sealed insulating glass unit is comprised of a laminated glass unit and a double strength ($\frac{1}{8}$ ") fully tempered glass lite separated by a stainless steel box type spacer system. The laminated glass unit is comprised of two double strength ($\frac{1}{8}$ ") annealed glass lites with a DuPont SentryGlas Plus 0.090" interlayer. The glass thickness and type used in the insulated glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04 and ASTM E 1886-02 and ASTM E 1996-02.

Glazing Method Key:

GM-1: The insulating glass unit is set from the exterior using Dow Corning 795 structural silicone that is located between the insulating glass unit and an aluminum gutter seat and the insulating glass unit and an extruded aluminum frame.

Curb Mount Frame: The curb mount frame construction consists of an extruded aluminum frame and an extruded aluminum gutter seat. The frame corners are mitered and welded. The gutter seat corners are mitered and welded.

Reinforcement: N/A

Hardware: N/A

Product Identification: A certification program label (NAMI) will be affixed to the skylight. The certification program label includes the manufacturer's name; the product name: **Maxim Impact Glass Curbmount Skylight**; performance characteristics; the approved inspection agency (NAMI); and the applicable standards: AAMA/WDMA/CSA 101/I.S.2/A440-05, ASTM E 1886-02, and ASTM E 1996-02.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	60 $\frac{5}{8}$	61 $\frac{1}{4}$	± 55

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 D specified in ASTM E 1996-02. The skylight assemblies may be installed at any height on the structure as long as the design pressure rating for the assembly 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 Requirements: The skylights shall be installed in accordance with the manufacturer's installation instructions and this product evaluation report. Detailed installation instructions and drawings are available from the product manufacturer.

Installation: The curb shall be constructed of minimum nominal 2x6 pressure treated Southern Yellow Pine dimension lumber. The wood curb shall be tall enough to maintain a minimum distance of 4 inches from the bottom of the aluminum frame to the top of the roof covering. The skylight's aluminum gutter seat shall rest on the top of the wood curb. A bead of Dow Corning 795 structural silicone sealant shall

be placed between the aluminum gutter and the wood curb. The aluminum frame shall be secured to the wood curb with minimum No. 12 x 1 ½" stainless steel screws. The fasteners shall be long enough to penetrate a minimum of 1 ¼ inches in to the wood curb. The fasteners shall be located approximately 2 ½ inches from each corner and approximately 8 inches on center along all four sides of the skylight.

NOTE: The wood curb shall be secured through the roof sheathing and into the roof framing (either the roof rafters/roof trusses and/or into minimum 2X wood blocking) with attachment anchors capable of resisting the required uplift loads. The attachment anchors shall be evenly distributed along the perimeter of the wood curb.

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).