

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION

Effective March 1, 2013

SK-40

*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 **November 2014**.*

*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.*

**Series CMA Fixed Aluminum Polycarbonate Dome Curb Mounted Skylights, Impact Resistant,** manufactured by:

**Sun-Tek Manufacturing, Inc.**  
**10303 General Drive**  
**Orlando, Florida 32824**  
**Telephone: (407) 859-2117**

are acceptable for use along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation report.

## PRODUCT DESCRIPTION

The Series CMA skylights are fixed aluminum frame skylights with a polycarbonate dome. The skylights are secured to a wood curb and the wood curb is secured to the structure. The skylights are impact resistant. This evaluation report is for skylights based on the following tested configuration:

### General Description:

System	Description	Label Rating
1	Series CMA Fixed Aluminum Polycarbonate Dome Curb Mounted Skylights	SKP-C60 51 x 94 Missile Level D

### Component Dimensions:

System	Overall Frame Size
1	50 $\frac{5}{8}$ " x 93 $\frac{5}{8}$ "

### Glazing Description:

System	Glass Construction <sup>1</sup>	Glazing Method <sup>2</sup>
1	SG-1	GM-1

Note: <sup>1</sup> See the "Glass Construction Key" for the glazing construction.

<sup>2</sup> See the "Glazing Method Key" for the glazing method description.

**Glass Construction Key:**

SG-1: The skylight is glazed with 0.118" outer polycarbonate dome and a 0.080" inner polycarbonate dome.

**Glazing Method Key:**

GM-1: The outer polycarbonate dome and the inner polycarbonate dome are sealed together using Dow #1205 silicone sealant.

**Frame Construction:** The frame is constructed of 6063-T6 aluminum. The frame is miter cut and TIG welded.

**Reinforcement:** None.

**Hardware:** None.

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

### LIMITATIONS

**Design pressures (DP):**

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	50 $\frac{5}{8}$	93 $\frac{5}{8}$	$\pm 60$

**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. These skylight assemblies passed Missile Level D specified in ASTM E 1996-02/05. 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:** Identically built assemblies with dimensions equal to or smaller than those specified in this evaluation report are acceptable within the limitations specified in this evaluation report.

### INSTALLATION INSTRUCTIONS

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

**Installation:** The skylights shall be secured to a wood curb. The wood curb shall be minimum 2x Southern Yellow Pine dimension lumber. The wood curb and the attachment of the wood curb to the roof framing shall be designed to resist the design pressure of the skylight as specified in this evaluation report. The wood curb and the attachment of the wood curb to the structure shall be designed by a TDI appointed engineer licensed to practice in the State of Texas.

The skylight shall be secured to the wood curb with minimum No. 12 x 2" screws. The fasteners are driven horizontally through pre-punched holes in the bottom edge of the aluminum skylight frame into the wood curb. Along the long dimension of the skylight, the fasteners shall be spaced approximately 4 inches from each corner and approximately 21  $\frac{3}{8}$  inches on center. Along the short dimension of the skylight, the fasteners shall be spaced approximately 4 inches from each corner and approximately 15

inches on center. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wood curb. Sealant is applied between the wood curb and the skylight frame per the manufacturer's instructions.

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