

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION SK-37

Effective March 1, 2014

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 **March 2017**.

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 SFA Fixed Aluminum Polycarbonate Dome Skylights, Non-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 SFA skylights are fixed aluminum frame skylights with a plastic dome. The skylights are secured to the roof deck of the structure. The skylights are non-impact resistant. This evaluation report is for skylights based on the following tested configurations:

General Description:

System	Description	Label Rating
1	Series SFA Fixed Aluminum Polycarbonate Dome Skylights	SKP/RW-R70 22 x 30 MST: 2'7" x 3'3"
2	Series SFA Fixed Aluminum Polycarbonate Dome Skylights	SKP/RW-R70 30 x 46 MST: 3'3" x 4'7"
3	Series SFA Fixed Aluminum Polycarbonate Dome Skylights	SKP/RW-C70 46 x 46 MST: 4'7" x 4'7"

Component Dimensions:

System	Overall Frame Size
1	30 1/2" x 38 1/2"
2	38 1/2" x 54 1/2"
3	54 1/2" x 54 1/2"

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	SG-1	GM-1
2	SG-2	GM-1
3	SG-3	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 is glazed with an outer polycarbonate dome and an inner polycarbonate flat panel. The outer dome has a 0.050" thickness and the inner panel has a 0.030" thickness.

SG-2: The skylight is glazed with an outer polycarbonate dome and an inner polycarbonate flat panel. The outer dome has a 0.060" thickness and the inner flat panel has a 0.040" thickness.

SG-3: The skylight is glazed with an outer polycarbonate dome and an inner polycarbonate flat panel. The outer dome has a 0.080" thickness and the inner flat panel has a 0.060" thickness.

Glazing Method Key:

GM-1: The polycarbonate dome and panel is exterior glazed with a silicone between the dome and panel and sealed to the frame with butyl tape.

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

Reinforcement: None.

Hardware: None.

Product Identification:

System 1: 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: **SFA2230 Fixed Aluminum Polycarbonate Dome Skylight**; performance characteristics; the approved inspection agency (NAMI); and the following applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05.

Systems 2 and 3: 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: **SFA Fixed Aluminum Polycarbonate Dome Skylight**; performance characteristics; the approved inspection agency (NAMI); and the following applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05.

LIMITATIONS

Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	22	30	± 70
2	30	46	± 70
3	46	46	± 70

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

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.

Anchorage – System 1: The skylights shall be mounted to minimum $\frac{7}{16}$ " thick wood structural panel deck (plywood or OSB). The skylight shall be secured to the roof deck with minimum No. 8 x 1" long screws. At the head and along each jamb, the fasteners shall be located at 5 inches from each corner and one at the mid-span. For the bottom of the skylight, the fasteners shall be located 5 inches from each corner.

Anchorage – Systems 2 and 3: The skylights shall be mounted to minimum $\frac{7}{16}$ " thick wood structural panel deck (plywood or OSB). The skylight shall be secured to the roof deck with minimum No. 8 x 1" long screws. At the head, the fasteners shall be located at 5 inches from each corner and one at the mid-span. Along each jamb, the fasteners shall be located 5 inches from each corner and spaced 16 inches on center thereafter. For the bottom of the skylight, the fasteners shall be located 5 inches from each corner.

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.