

Product Evaluation

SK44 | 0122

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-44

Effective Date: January 1, 2022

Re-evaluation Date: July 2024

Product Name: Model M74 DS Curb Mount Tubular Daylight Device, Impact Resistant

Manufacturer: Solatube International, Inc.

2210 Oak Ridge Way

Vista, CA 92081-8341

(760) 597-4427

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Model M74 DS Curb Mount Tubular Daylight Device	CW-PG80 36 x 36 – Type TDD Missile Level D	+80 / -80 psf

Product Dimensions and Glazing:

System		
1	Outside Curb Dimension	34-3/8" x 34-3/8"
	Outside Frame Dimension	36" x 36"
	Dome Height (Primary Dome)	6"
	Dome Diameter (Primary Dome)	31.38"
	Dome Diameter (Secondary Dome)	29.96"
	Primary Dome Thickness	0.118" Monolithic Polycarbonate
	Secondary Dome Thickness	0.118" Monolithic PETG or PET-GAG

Product Identification (Certification Label on Skylight):

System		
1	Certification Agency	Keystone
	Manufacturer’s Name or Code Name	Solatube International Inc. Label 1: CAR 110-121 Label 2: CAR 110-204
	Product Name	Solatube SkyVault Series M74DS
	Test Standards	Label 1: AAMA/WDMA/CSA 101/I.S.2/A440-11 Label 2: ASTM E 1886-13, ASTM E 1996-12, Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1	Yes	These products satisfy TDI’s criteria for protection from windborne debris. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

Installation: Mount the tubular daylight device (TDD) to a wood curb. Use a minimum 2x8 Douglas Fir-Larch dimension lumber wood curb. Design the wood curb and the attachment of the wood curb to the roof framing to resist the design pressures of the TDD assembly as specified in this evaluation report. Design of the wood curb and the attachment of the wood curb to the roof framing must be done by a Texas licensed engineer.

Secure the TDD to the wood curb using the vertical apron of the curb cap assembly with minimum No. 10 x 2" Phillips truss head screws. Locate four (4) fasteners along each side of the assembly. Place the fasteners through the pre-cut holes in the vertical apron of the curb cap assembly approximately 2-1/2" and 10" from each corner. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wood framing.

Note: Keep the manufacturer’s installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.