

SunWave™ Daylighting System



Item Description

Daylighting Domes

Product Information

Description:

Firestone SunWave Daylights are used in industrial, retail, commercial, and educational buildings as a source of daylighting, either in conjunction with or in place of electrical lighting. The lighting performance of SunWave Daylights provide superior visible light transmittance as well as optimal 100% diffused light distribution without causing glare, ultraviolet (UV) radiation, and hot spots. The proprietary design of the SunWave dome allows it to draw up to 50% more light at low sun angles than standard bubble style skylights. The SunWave Daylighting System consists of a fixed industrial double-glazed domed skylight of impact modified acrylic or polycarbonate plastic lenses, with a thermally insulated, extruded, weather-tight aluminum frame. The SunWave dome passes a 200 lb (91 kg) drop test from 2' (0.6 m) above highest part of dome and installed domes can support 500 lb/ft² (227 kg/0.9 m²).

Method of Application:

1. Install in accordance with current Firestone specifications, details, and workmanship requirements.
2. Fasteners packaged with SunWave Daylights include #12 x 1½" (38 mm) 300 series stainless steel screws with neoprene/stainless steel bonded washers.
3. Substrates must be clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, and grease.

Storage:

- Store products in manufacturer's unopened packaging until ready for installation.
- Store and dispose of hazardous materials, and materials contaminated by hazardous materials, in accordance with requirements of local authorities having jurisdiction.

Precautions:

To provide fall protection, a Safety-Security Guard (SSG) Screen is integrated into all SunWave curbs; see SunWave Roof Curb TIS #1802. Installer shall be responsible for fall protection when SunWave curbs are not used.

LEED® Information:

Post Consumer Recycled Content: 50%
Pre Consumer Recycled Content: 25%
Manufacturing Location: Sacramento, CA

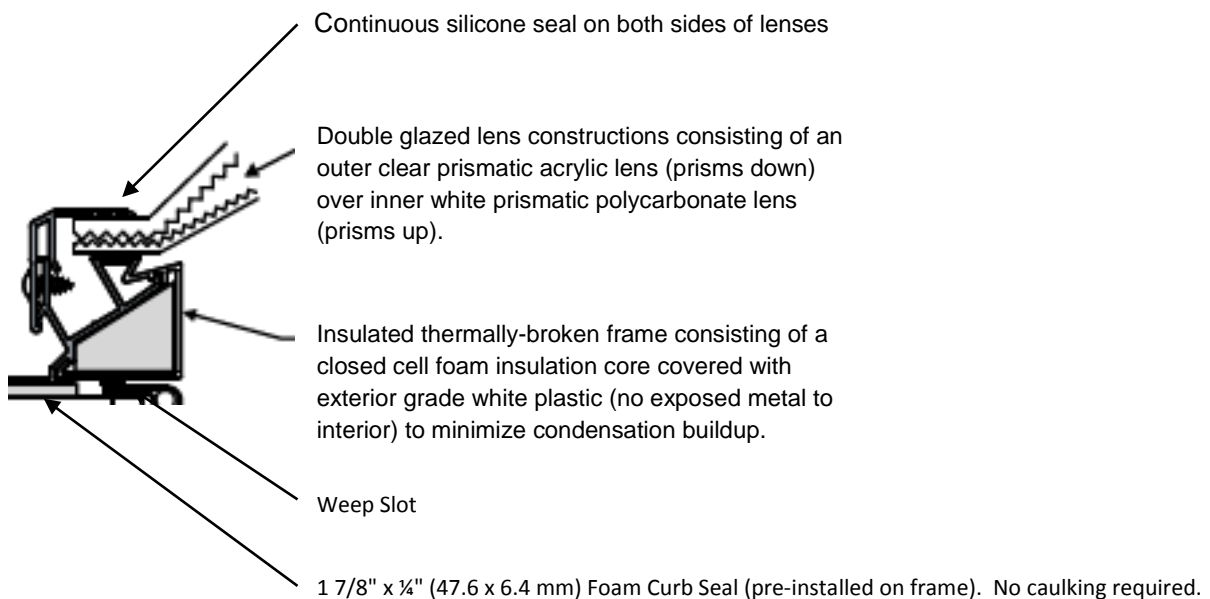
SunWave™ Daylighting System

- High Velocity Hurricane Zone Approved FBP-1650
- National Fenestration Rating Council (NFRC)
- Florida Building Code: FL #14199
- Tested in accordance to AAMA/WDMA/CSA101/I.S.2/A440-08: North American Fenestration Standard/Specification for windows, doors, and skylights.

Typical Properties

<u>Thermal and Optical Performance</u>	<u>Standard</u>	<u>Value</u>	
R-Value	ASTM C 1363	1.56	
U-Value	ASTM C 1363	0.64	
SHGC (Solar Heat Gain Coefficient)	NFRC 201	0.45	
Light Diffusion	---	100%	
Flame Spread Value **	CAN/ULCS 102.2	64.1	
Smoke Development Value	CAN/ULCS 102.2	399.4	
VLT* (Visible Light Transmittance)	<u>Product</u>		
	<u>VLT*(%)</u>		
	Class 1 - Hail Rated Double Glazed Acrylic SunWave	68	
	Class 3 - Hail Rated Double Glazed Acrylic SunWave	68	
*Values reported for flat pre-formed plastic glazing.		HVHZ Approved Polycarbonate	65
** Values reported for polycarbonate glazing.		FM Approved Polycarbonate	62

Design Specifications:



SunWave™ Daylighting System

Product Data

Item Number	Dimensions	Curb Dimensions (inside; outside)
Class 1 Hail Rated, Acrylic over Acrylic:		
W56RACDL05	2' X 4' (0.6 X 1.2 m)	23" x 47" ID; 26" x 50" OD
W56RACDL06	4' X 4' (1.2 X 1.2 m)	47" x 47" ID; 50" x 50" OD
W56RACDL43	4' X 8' (1.2 X 2.4 m)	47" x 95" ID; 50" x 98" OD
W56RACDL07	5' X 5' (1.5 X 1.5 m)	59" x 59" ID; 62" x 62" OD
W56RACDL08	5' X 6' (1.5 X 1.8 m)	59" x 71" ID; 62" x 74" OD
W56RACDL65	5' X 8' (1.5 X 2.4 m)	59" x 95" ID; 62" x 98" OD
Class 3 Hail Rated, Acrylic over Acrylic:		
W56RACDL44	2' X 4' (0.6 X 1.2 m)	23" x 47" ID; 26" x 50" OD
W56RACDL45	4' X 4' (1.2 X 1.2 m)	47" x 47" ID; 50" x 50" OD
W56RACDL46	4' X 8' (1.2 X 2.4 m)	47" x 95" ID; 50" x 98" OD
W56RACDL52	5' X 5' (1.5 X 1.5 m)	59" x 59" ID; 62" x 62" OD
W56RACDL53	5' X 6' (1.5 X 1.8 m)	59" x 71" ID; 62" x 74" OD
W56RACDL64	5' X 8' (1.5 X 2.4 m)	59" x 95" ID; 62" x 98" OD
High Velocity Hurricane Zone (HVHZ) Approved, Polycarbonate over Acrylic:		
W56RACDL49	2' X 4' (0.6 X 1.2 m)	23" x 47" ID; 26" x 50" OD
W56RACDL50	4' X 4' (1.2 X 1.2 m)	47" x 47" ID; 50" x 50" OD
W56RACDL51	4' X 8' (1.2 X 2.4 m)	47" x 95" ID; 50" x 98" OD
W56RACDL47	5' X 5' (1.5 X 1.5 m)	59" x 59" ID; 62" x 62" OD
W56RACDL48	5' X 6' (1.5 X 1.8 m)	59" x 71" ID; 62" x 74" OD
W56RACDL66	5' X 8' (1.5 X 2.4 m)	59" x 95" ID; 62" x 98" OD
FM Global Approved, Polycarbonate over Polycarbonate:		
W56RACDL81	2' X 4' (0.6 X 1.2 m)	23" x 47" ID; 26" x 50" OD
W56RACDL82	4' X 4' (1.2 X 1.2 m)	47" x 47" ID; 50" x 50" OD
W56RACDL83	4' X 8' (1.2 X 2.4 m)	47" x 95" ID; 50" x 98" OD
W56RACDL84	5' X 5' (1.5 X 1.5 m)	59" x 59" ID; 62" x 62" OD
W56RACDL85	5' X 6' (1.5 X 1.8 m)	59" x 71" ID; 62" x 74" OD
W56RACDL86	5' X 8' (1.5 X 2.4 m)	59" x 95" ID; 62" x 98" OD

Please contact your Quality Building Solutions Technical Department at 1-800-428-4511 for further information.

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