



 VERSICO
SUNWELD
CONVENTIONAL SKYLIGHT





SunWeld™ Aluminum-Welded Skylights

SunWeld Aluminum-Welded Skylights offer the versatility and dependability required of the Versico brand and represent the quality standard for conventional industrial daylighting. These skylights reap the energy-saving benefits derived from natural daylighting, while offering a full custom-sized program with a broad spectrum of glazing options.

Standard features include:

- Heliarc welded 6063-T5 extruded heavy wall aluminum frames
- Many non-thermoplastic glazing options including LOW-E insulated glass
- Several venting options
- Weep holes and polyurethane thermal break provided as specified
- Several fall protection options
- Welded aluminum insulated curbs - 9" or 12" standard
- Welded galvanized steel curbs both structural and non-structural

Curb Mount - Fixed

Manufactured to fit onto an existing curb, curb mount units are used to replace existing skylight hatches that are defective or in a state of glazing failure. Curb mount units can also be specified when the contractor prefers to field-fabricate their own curb, flash it into the roofing system, and then install a curb mount skylight onto it.

Curb Mount - Vented

Vented curb mounts provide the same benefits as the fixed curb mounts with an additional venting option, and can be operated manually or by motorization. If access to the rooftop through the skylight is required, egress hardware will be specified to allow the unit to swing like a door and, after the screen is removed, allow occupant access to the rooftop.



Optional Pyramid Dome available on all acrylic and polycarbonate models



Curb Mount - Fixed



Curb Mount - Vented



Self Flashing: Fixed or Vented

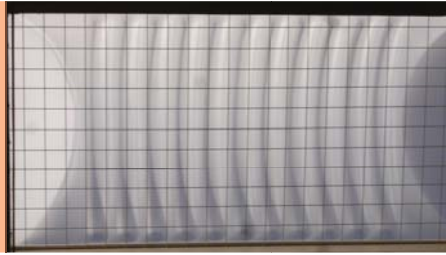
Self-Flashing Skylights - Fixed & Vented

These units are factory-assembled onto a fully welded curb that is insulated with 1" rigid insulation, and can be manufactured fixed or with several venting options. The 3" mounting flange allows for easy fastening to the deck.

Other Models & Options Available

Ridge lights, tandems, barrel vaults and tandems, among other items, are also available, along with additional glazing options, shapes and finishes. Call Versico Customer Service for a quote.

Light Transmission Comparison



Competitor (shadowing effect)



SunWeld Prismatic
(17% more light transmission)

SunWeld Vaulted Prismatic Skylight

These skylights with their unique dome configuration provide superior impact strength and light collection properties and can meet specifier requests for prismatic glazing. Compared to similar competitors' models, these units are also manufactured with a true thermal break (pour and de-bridge) and gentler dome, eliminating shadowing and increasing light transmissions.

The center cavity of the aluminum frame is filled with a 50-year life, non-thermal conductive resin and cured. The 2" horizontal frame flange is then milled out to the level of the epoxy. This process achieves a complete and total separation of the exterior aluminum frame and the aluminum frame in the interior of the building.

Heat/Smoke Vents

Mechanical Type with Fusible Link

The SunWeld Mechanical Smoke Vent is activated by an electro-thermal fusible link with various load-lifting capabilities. All units are ICC code compliant, with UL-listed and FM-approved smoke vents also available. Units are available with insulated metal lids, single or double dome glazing, with activation temperatures available from 165° up to 500°. Can be curb mount or self flashed. Door latches are fully adjustable after installation, ensuring proper wind uplift protection and proper tensioning of the vent.



Drop-Out Type with Safety Cage

The SunWeld Drop-Out Smoke Vent is glazed with a special heat-sensing plastic that when activated, softens the glazing material and releases it from its retainer frame, venting smoke and gas. Units work with any sprinkler system including ESFR sprinklers. The vents operate within five minutes with exposure to fire. Both curb mount and self-flashed units are available and they are delivered with a standard safety cage. An OSHA-compliant cage is available as an upgrade. A UL listing is available.



Versico's SunWeld Daylighting Systems

	Acrylic	Copolyester	Polycarbonate	Fiberlite Fiberglass	Prismatic	Silica Aerogel	Special Acrylic
Key Attribute	Lowest cost	Greater strength and impact resistance than acrylic with similar cost	Best impact resistance, hurricane and burglar proof	Best strength, leakproof	Best light transmission	Best insulator	Lowest solar heat gain
VLT Light Transmission %	53%	60%	60%	63%	70%	50%	50%
SHGC Solar Heat Gain Coefficient	0.50	0.50	0.54	0.46	0.50	0.50	0.25
U Factor/Insulating Value	0.56	0.65	0.61	0.63	0.65	0.12	0.53
Haze/Light Diffusion %	98%	98%	98%	100%	100%	100%	100%
Glazing Material Notes	Medium White Acrylic over Clear Acrylic	White Copolyester over Clear Acrylic	Clear Polycarbonate over White Polycarbonate	Fiberglass over Clear Acrylic	Clear Impact Modified Prismatic over White Impact Modified Prismatic	Clear Acrylic over Clear 16 mm Polycarbonate panel filled with Silica Aerogel	Clear Coolite Impact Modified Acrylic over White Prismatic
Dome Design-Shape	Bubble	Triarch	Bubble	Bubble	Triarch	Bubble	Bubble
OSHA Load Test	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Total Load Test	400 lbs	800 lbs	1,600 lbs	2,200 lbs	400 lbs	400 lbs	400 lbs
Hail Resistant	Limited	Moderate	Passed FM 2" Severe Hail Test	Passed FM 2" Severe Hail Test	Limited	Limited	Limited
Rate of Burning UBC-26-7/ASTM D635-06	CC2	CC1	CC1	CC1	CC2	CC2	CC2
Smoke Density ASTM D2843-99	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Ignition Temperature (Self Ignition) ASTM D1926-96	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Warranty	10 years No-Leak	10 years No-Leak	10 years No-Leak	10 years No-Leak & <1% VLT Loss Per Year	10 years No-Leak & Maximum VLT Loss 3%	10 years No-Leak	10 years No-Leak

All skylights above are available with either zinc-plated steel or architectural-grade 6063-T6 aluminum frames. Frame types include curb mount, self flashing (curb mount with an integral curb), or curb mount with a separate structural curb. All frames are designed with condensation gutters and non-clog weep holes. Frame options include AAMA compliant thermal break, 1" polyboard insulation, wood nailer, louvers, rain guards and custom outside/inside curb, curb height and flange dimensions.

Performance information obtained through NFRC, NAFS, ICC, AAMA, UL, FM AND ASTM standards and testing. Load test results are for specific outer dome thicknesses.

For additional technical information and/or daylighting systems design consultation, please contact Versico for your specific needs.



A SINGLE SOURCE FOR SINGLE-PLY ROOFING

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