

SUNWELD™ PLUS
Conventional Skylight BY **VELUX**
Commercial



The Quality Standard in Commercial Daylighting



An Industry-Leading Partnership

Given the intersecting of daylighting and the rooftop when it comes to toplighting, it's fitting that leaders in both specialties collaborate to create an industry-leading partnership. That's why Carlisle has partnered with VELUX® in the creation of the SunWeld Plus by VELUX® line. This line of industrial unit skylights offers a broad portfolio of toplighting solutions including traditional custom dome skylights as well as revolutionary designs such as the Dynamic Dome along with best-in-class warranties.

SUNWELD™ PLUS
 Conventional Skylight BY **VELUX**
 Commercial

Warranties		
Acrylic	100% Impact Modified Acrylic*	Polycarbonate*
5-Year Leak-Free	10-Year Leak-Free	20-Year Leak-Free / 15-Year Hail Breakage (Up to 2" in diameter)

*Non-standard size units with outside curb dimensions greater than 63" x 99" receive 5-Year Leak-Free Warranty

Revolutionary Dynamic Dome

DOMES DESIGN

Available in 18 standard sizes, the Dynamic Dome skylight is architecturally elegant, strong, and designed to capture more daylight in the early morning and late afternoon, thereby maximizing energy savings by reducing electric light usage.

Light Harvesting

- » Dome shape engineered to maximize low-angle sunlight.
- » Taller domes provide more surface area to harvest more daylight.
- » Smooth, clear outer dome delivers 20% more daylight than a skylight with a prismatic outer dome.
- » White prismatic inner dome option provides 100% light diffusion.
- » Steeper side walls of skylight harvest more daylight than skylights with lower profile domes.

Dome Strength

- » Dome profile designed to maximize strength and improve impact resistance.
- » Repeating series of ridges and ribs provide superior structural strength.

Dynamic Dome Sizes

Outside Curb Size	Maximum Skylight Clearance
27" x 51"	28 ¼" x 52 ¼"
27" x 99"	28 ¼" x 100 ¼"
27" x 123"	28 ¼" x 124 ¼"
39" x 39"	40 ¼" x 40 ¼"
39" x 63"	40 ¼" x 64 ¼"
39" x 75"	40 ¼" x 76 ¼"
39" x 99"	40 ¼" x 100 ¼"
39" x 123"	40 ¼" x 124 ¼"
51" x 51"	52 ¼" x 52 ¼"
51" x 63"	52 ¼" x 64 ¼"
51" x 75"	52 ¼" x 76 ¼"
51" x 99"	52 ¼" x 100 ¼"
51" x 123"	52 ¼" x 124 ¼"
63" x 63"	64 ¼" x 64 ¼"
63" x 75"	64 ¼" x 76 ¼"
63" x 99"	64 ¼" x 100 ¼"
63" x 123"	64 ¼" x 124 ¼"
75" x 75"	76 ¼" x 76 ¼"



INNOVATIVE FRAME



ENERGY EFFICIENT DESIGN

Dome spacing is optimized for energy efficiency.



100% THERMAL BREAK

Thermally broken frame provides maximum energy efficiency.



BUILT TO LAST

Manufactured using 50-year silicone for superior protection.



TRIPLE CONDENSATION PROTECTION

Unique one-piece inner frame evacuates all water/condensation harmlessly to the exterior.



LOW CONDUCTANCE

Spacer offers low conductance for energy efficiency and allows condensation release.



COMPACT TRANSPORTATION

Design allows units to be nested and efficiently transported.



DRY INSTALLATION

No curb tape or caulking required for installation.



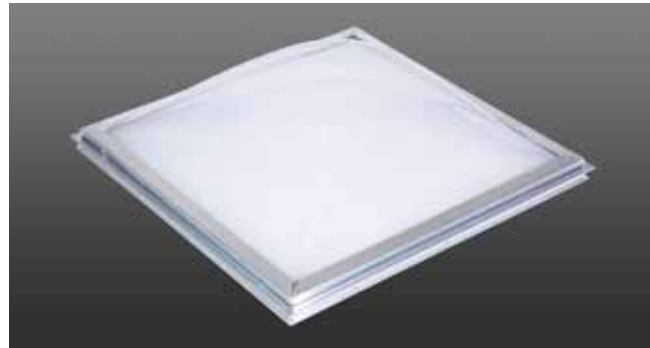
EASY TO HANDLE

Indented frame design provides simple carry touch-point.

Variety of Skylight Options

CUSTOM SKYLIGHTS

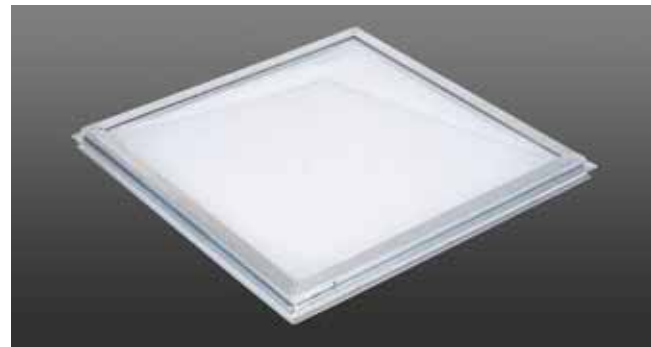
Custom unit skylights are available in a wide variety of shapes and dome configurations with various glazing options and frame finishes. Available in both curb-mount and deck-mount options, sizes range from 17" x 17" up to 102" x 150" in 1/4" increments making them ideal for both new and retro-fit applications that require a specific size and classic appearance.



Traditional Dome



Hip Ridge Dome



Pyramid Dome



Custom Unit Options

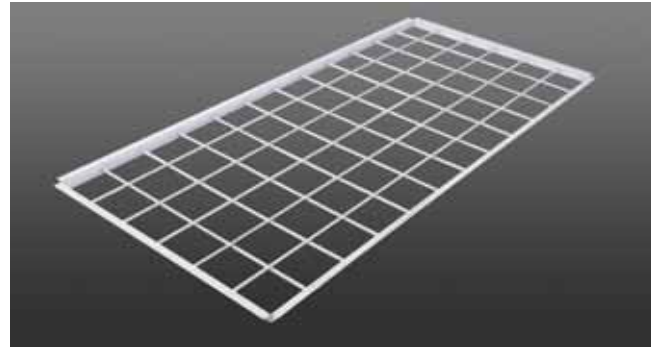
Shapes	Dome Hip/Ridge Pyramid
Glazing Materials	Acrylic 100% Impact Modified Acrylic (IMA) LuxGuard (Polycarbonate) LuxGuard Plus (Polycarbonate, HVHZ Approved)
Glazing Color/Finish	Clear White Bronze (Acrylic) Clear Prismatic (IMA and Polycarbonate)
Frame Finishes	Mill Finish Gray Painted
Number of Domes	Single Double
Mounting	Curb-Mount Deck-Mount
Optional Accessories	Interior Safety Screens Exterior Safety Screens

Call Carlisle Specialty Pricing for available options and a quote at specialtypricing@carlisleccm.com.

Accessories and Warranty Options



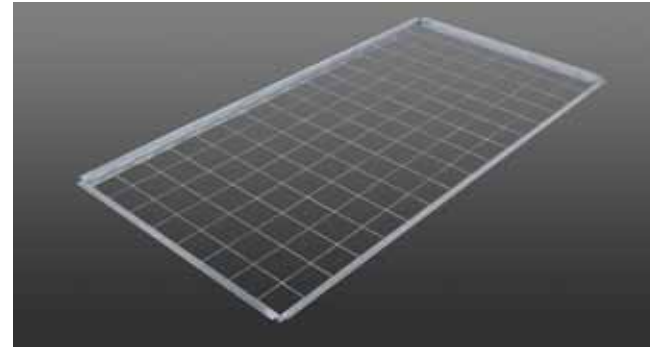
FALL PROTECTION ACCESSORIES



Interior Safety Screens

Internal safety screens with steel mesh provide a cost-effective means of protecting the skylight opening during construction and long after construction is complete.

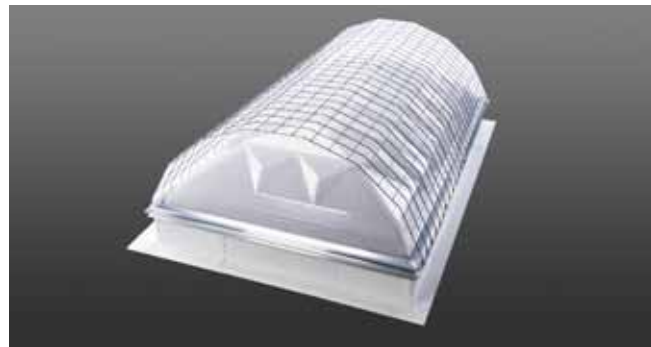
- » Available in 18 standard Dynamic Dome sizes
- » Available in custom sizes:
 - Max - (W) 72" x (L) 120"
 - Min - (W) 24" x (L) 24"



Interior Security Bars

1/2" diameter steel bars welded to offer the most security protection available, during construction and long after construction is complete.

- » Available in 18 standard Dynamic Dome sizes



Exterior Safety Screen

External safety screens provide OSHA fall protection for flat roof, domed commercial skylights. The screen system provides fall protection without damaging your skylight.

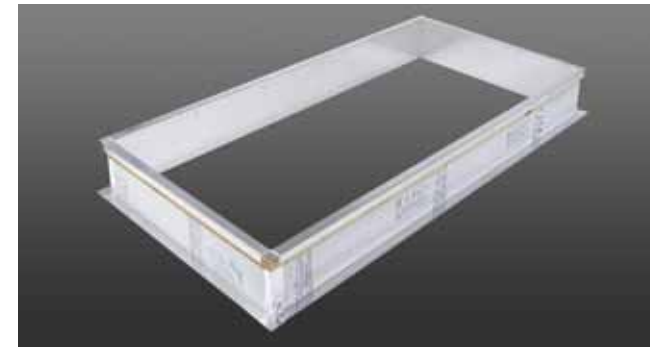
- » Available in 18 standard Dynamic Dome sizes
- » Available in custom sizes



The safety of others is of the utmost importance to Carlisle. In addition to selecting the correct skylight for the application, Carlisle recommends that the customer consider protecting all skylight openings and skylights with one or more fall protection accessories. Carlisle recommends that the building owner or manager restrict roof access only to personnel who have been sufficiently cautioned as to the location of the skylights, and warned not to sit, step, or walk on the skylights. The building owner or manager should provide fall protection around the skylight in accordance with OSHA regulations.

DECK-MOUNT CURBS

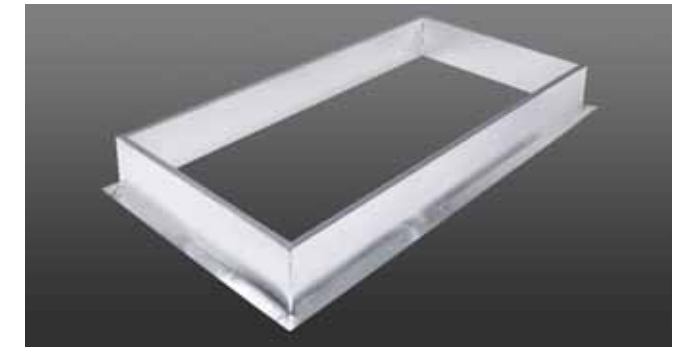
Available in both custom and standard sizes, prefabricated (deck-mount) curbs are fully assembled to reduce installation time and cost, eliminating missing parts and field assembly. Models are available in insulated and non-insulated as structural or non-structural.



Single Wall Insulated Aluminum Curb

Factory-insulated, single-walled, mill-finished aluminum curb with pressure-treated nailer.

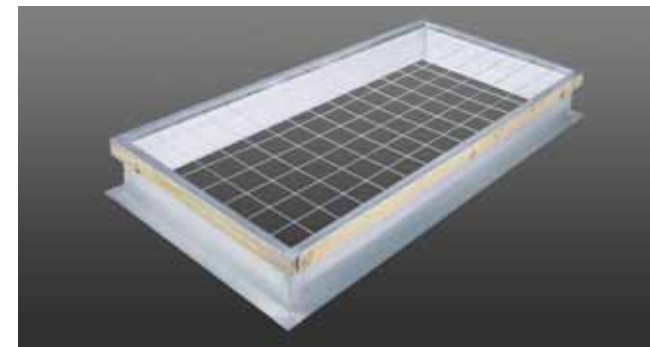
- » 18 standard sizes to fit Dynamic Dome Skylights
- » **Height options:** 9", 12", 16"



Double Wall Insulated Aluminum Curb

Factory-insulated, double-walled, mill-finished aluminum curb with MDF nailer.

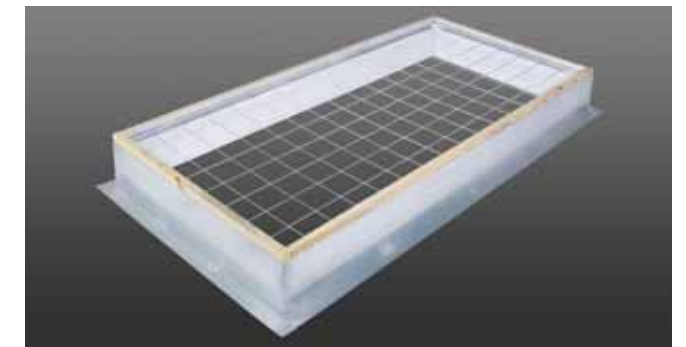
- » Available in custom sizes up to 102" x 150" (outside curb sizes)
- » **Height options:** 9", 12", 16"



Single Wall Field Insulated Steel Curb

Field-insulated, single-wall, steel curb with pressure-treated nailer and safety screens.

- » 18 standard sizes to fit Dynamic Dome Skylights
- » **Height options:** 9", 12", 16", 18"



Double Wall Insulated Steel Curb

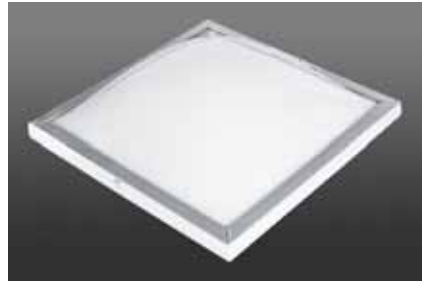
Factory-insulated, double-wall, steel curb with wooden nailer and safety screens.

- » 18 standard sizes to fit Dynamic Dome Skylights
- » **Height options:** 9", 12", 16"

Skylighting 101 and Ordering Checklist

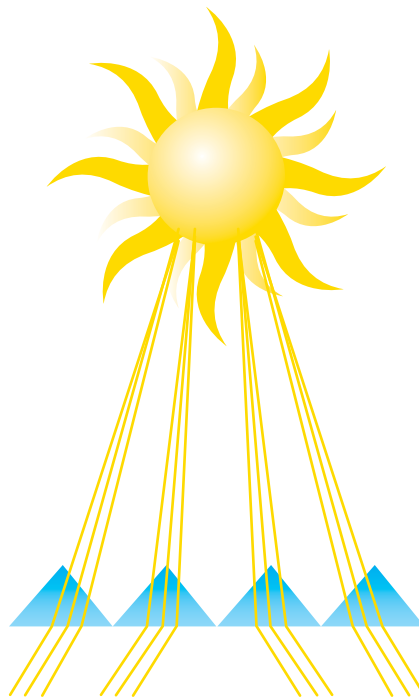


COMMON TERMINOLOGY



Curb-Mount

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 his own curb, flash it into the roofing system, and then install a curb mount skylight onto it.



Thermally-Broken

Referred to when discussing a thermally-broken frame in which the design features a synthetic barrier between the inside and outside profiles, creating an insulated barrier. If no thermal-break is incorporated, cold/heat can exit or enter the interior of the building by bridging through the solid metal frame.



Deck-Mount

These units are factory assembled onto a fully fabricated curb that can either be factory or field insulated and are fastened directly to the roof deck.

Prismatic

Referred to when discussing glazings, this finish is designed to work with prisms in diffusing more light than a smooth material.

U-Factor

Expresses the heat loss performance (the lower the number, the more energy-efficient the unit).

Solar Heat Gain Coefficient (SHGC)

Measures solar radiation admitted through a unit subsequently released as heat inside the building (the lower the number, the less heat it transmits).

Visible Light Transmittance

Measures how well a product is designed to effectively light a space with daylight (the higher the number, the more natural light that is let in).

Glazings

	Acrylic	100% Impact Modified Acrylic	Polycarbonate
Impact Resistance	✓	✓✓	✓✓✓
Static Load Resistance	✓	✓✓	✓✓✓
Light Transmittance	✓✓✓	✓✓✓	✓✓✓
Minor Scratch Removal	✓✓✓	✓✓✓	✓✓

QUOTING AND ORDERING

How to ask a question or request a quote

To request a quote, please contact Carlisle's Specialty Product Pricing Team at SpecialtyPricing@CarlisleCCM.com.

Skylight Quote Checklist

Skylight Quantity: _____

Safety Screen/Fall Protection:

Interior Exterior

Quantity: _____

Metal Curb:

Height: 9" 12" 16"

Gauge: 14G 18G

Insulation: Pre-insulated Field-insulated

Quantity: _____

Aluminum Curb:

Height: 9" 12" 16'

Quantity: _____

Existing Curb Outside Dimensions including finished roof:

_____ x _____

Existing Curb Inside Dimensions:

_____ x _____

Special Ratings or Requirements:

UL FM Hurricane

Brand Specified:

No Spec SunWeld VELUX Bristolite
 Sunoptics Wasco Other _____

Warranty Needed:

Yes: _____ years

No

EXPERIENCE THE CARLISLE DIFFERENCE



800-479-6832 | P.O. Box 7000 | Carlisle, PA 17013 | Fax: 717-245-7053 | www.carlisesyntec.com