

**VELUX®**

Commercial



# ABBA SKYLIGHTS

RESIDENTIAL | INDUSTRIAL | COMMERCIAL | INSTITUTIONAL

*"A World of Skylight Options"*

## Commercial Daylighting

Daylighting solutions for public, industrial  
and commercial buildings

# Commercial Daylighting

When installed on commercial buildings, skylights and daylighting systems provide benefits that no other light source can offer. VELUX Commercial's newly expanded line of products allows you to provide optimal light distribution at a building's core while minimizing glare and enhancing architectural design. And with economic and energy-efficient design options, you're sure to find the perfect commercial daylighting system for any project.

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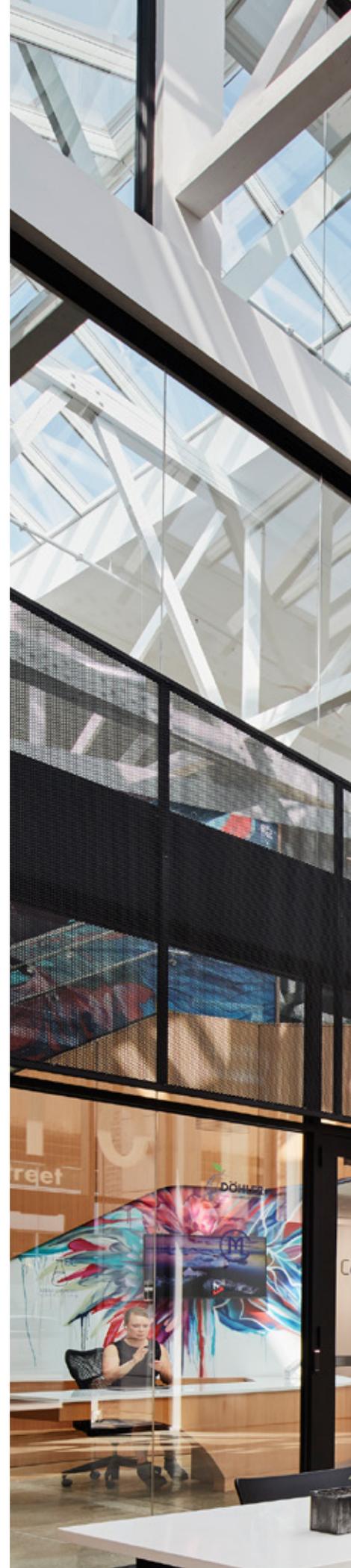
# Metal Framed Skylights

An innovative series for custom skylight designs

Designed for easy installation and long-lasting good looks, VELUX Commercial's structural skylight structures are available with a broad range of quality glass glazing options and versatile design possibilities for a fully customized configuration.



VELUX Modular System (VMS) Ridgelight and Step Longlight configurations, CoLaboratory, Chicago, IL





oLaboratory

Co. laboratory

# Modular Skylights

Maximize daylighting with modular innovation

VELUX Modular Skylights (VMS) offer eight configurations to fit a multitude of commercial buildings, bringing daylight and fresh air to any space. With smart, automated control options, these modules offer integrated roller blinds and ventilation that control heat gain and glare for superior energy-efficiency.

The pretested and prefabricated modular system requires no on-site glazing, making installations three times faster for long-term watertight performance.

## VMS systems

A complete modular system for fast and easy installation

The unique modular design offers multiple configurations for fast on-site installation and watertight performance. More than just daylight, these skylights offer climate control, ventilation, and shading automation for healthier, beautiful buildings.



VMS Ridgelight, The Leamington Hotel, Oakland, CA



VMS Ridgelight, Cermak Fresh Market, Chicago, IL

# Custom Skylights

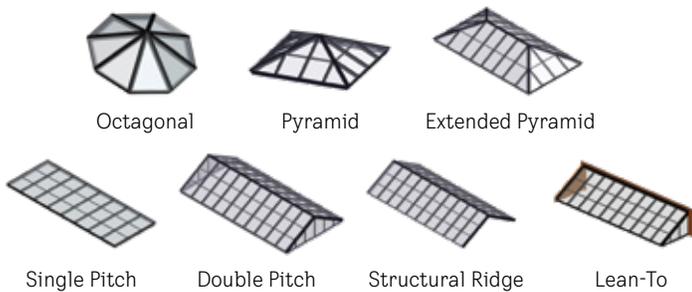
Completely customizable daylighting systems

For a dramatic look, the Custom Series offers lightweight, metal-framed structural skylights available in fully customizable configurations, finish colors, and glazing options. Custom skylights are made up of an adaptable range of versatile systems to help create stunning daylight designs for every project.

## Structural

Pinnacle and Classic systems

The Pinnacle Systems consist of structural skylights that are available in a variety of configurations capable of spanning up to 40 feet wide. The lightweight Classic Systems are capable of spanning up to six feet wide with three standard pitches to create just the right look for every job.



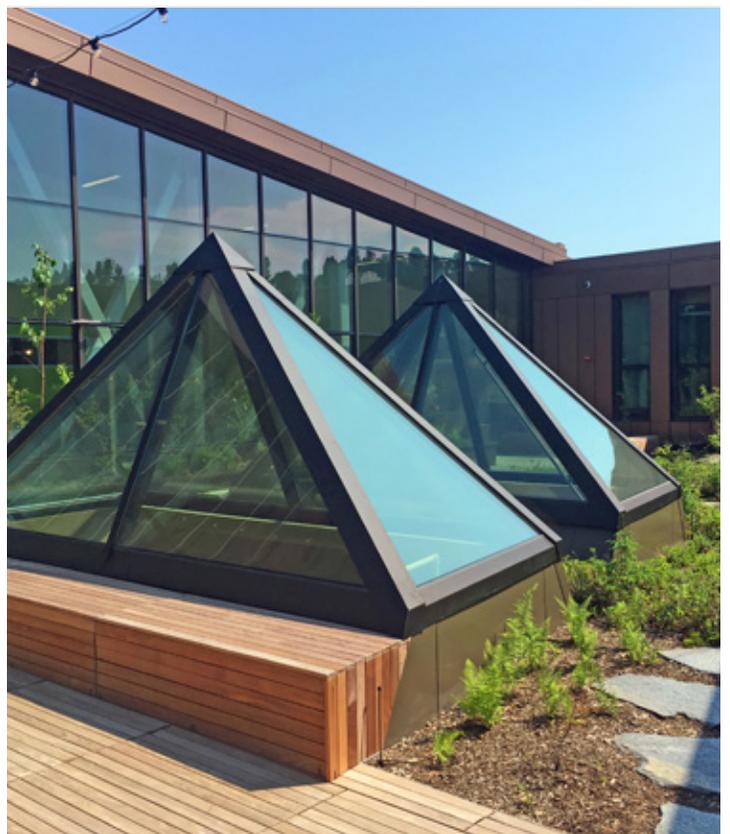
## Non-structural

Low Profile system

The Low Profile System is laid over roof rafters to create a narrow line frame for a clean, appealing look on pitched roof applications. Available in curb-mounted or self-flashing deck-mounted options.



Circular Hurricane Single Pitch Pinnacle 600, University of Missouri, Kansas City, MO

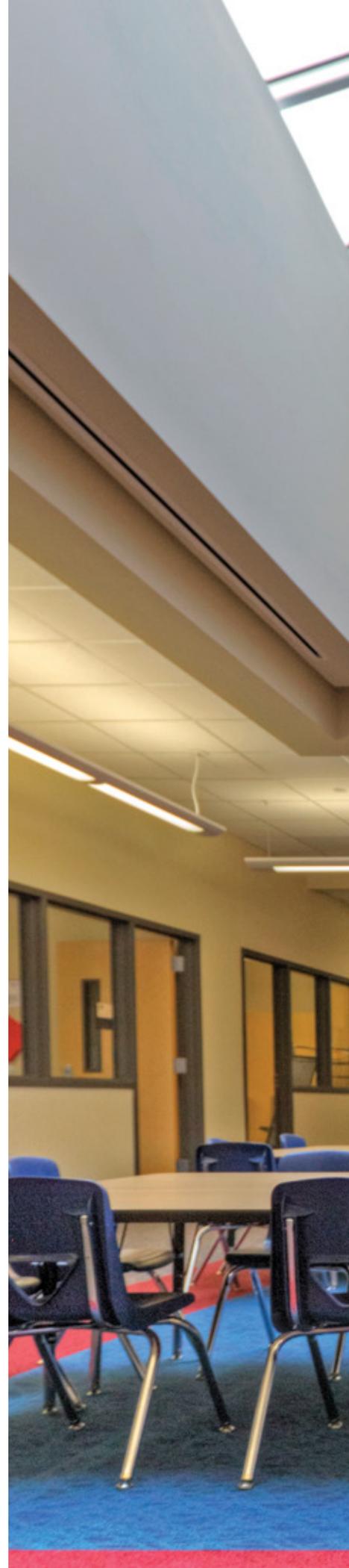
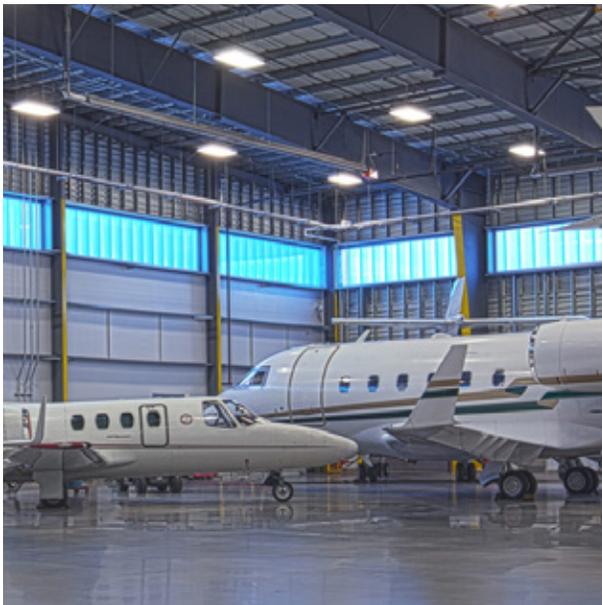


Two Pinnacle 350 Trapezoid Pyramids, UMass Design Building, Amherst, MA

# Translucent Daylighting

Innovative options for commercial daylighting applications

Comprised of polycarbonate panel skylight, wall and canopy systems, the Translucent Daylighting products are environmentally friendly, sustainable, and energy efficient. Each product in this series utilizes advanced, high-performance, lightweight multiwall panels that maintain high clarity while providing excellent thermal insulation, UV protection, and long-term high light transmission.



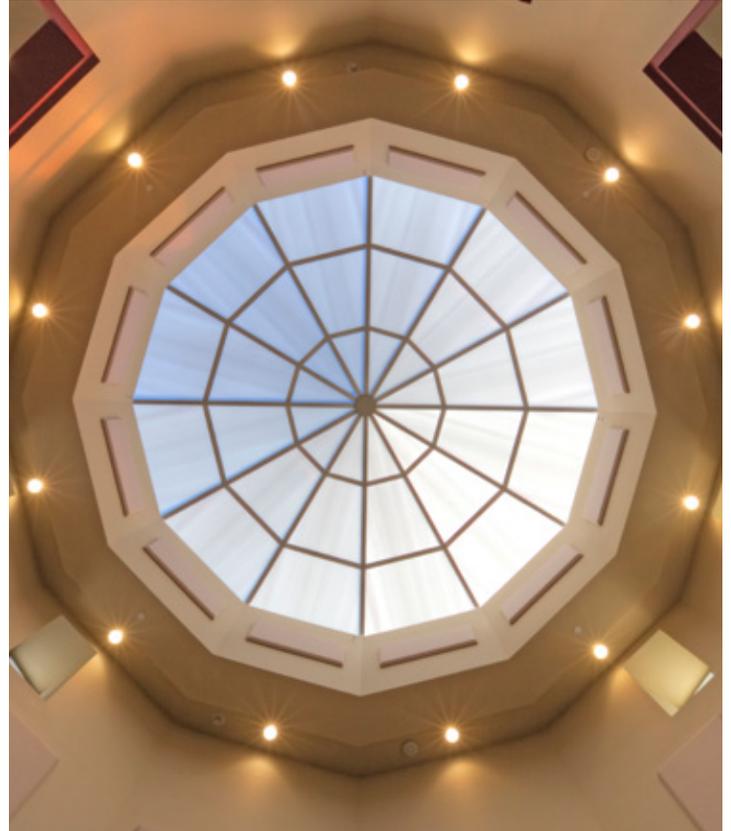
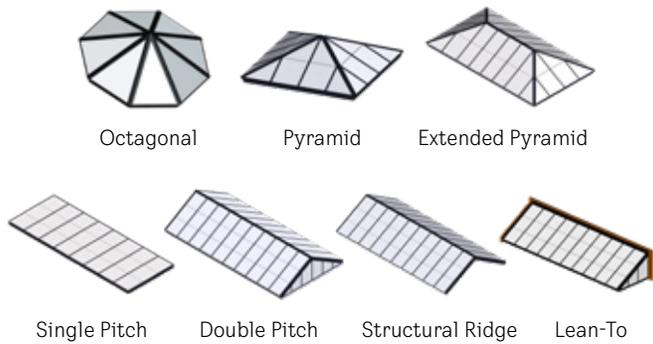


# S-Series skylights

Creative designs for commercial daylighting applications

The Horizon S-Series consists of metal-framed translucent skylight structures, available in a wide range of configurations for unlimited design possibilities.

A dry-glazed translucent single or double multiwall polycarbonate panel system, the S-Series reduces labor and material costs in new construction, retrofit, or renovation projects.



12-Sided Polygon Pyramid, French Elementary School, Spring, TX



Double Pitch, Highlands Oncology Group, Rogers, AR



Single Pitch, Rockaway Town Center, Rockaway, NJ

## V-Series wall system

Superior maintenance-free translucent wall system

Made of lightweight, interlocking tongue and groove polycarbonate panels, the Translucent Wall is easy to install and delivers superior light transmission, high impact resistance, and low u-values. This dry glaze system also features optional polyurethane thermal breaks for superior thermal performance.



University of Houston Indoor Football Practice Facility, Houston, TX



Pinnacle National Development Center, Kansas City, KS

## C-Series and M-Series canopies

Economical solutions for custom low-slope canopy designs

Available in various panel colors and configurations, the canopy systems are constructed of lightweight, impact-resistant, UV-protected polycarbonate panels. A top choice of design professionals, the systems are available as translucent multiwall standing seam polycarbonate (C-Series) or monolithic polycarbonate (M-Series) canopy systems.



M-Series Canopy



C-Series Canopy, Methodist Hospital, Omaha, NE

# Advanced Glazings

For maximum control, comfort and efficiency

The Advanced Glazing Series lets you harness the positive benefits of natural daylight without suffering undesirable effects like excessive heat gain, glare or fading. This complete line of technologically advanced glazing provides maximum design versatility as well as optimum daylighting for multiple applications.





## Photovoltaic glass

Photovoltaic (PV) glass is made of a silicon-based material that improves thermal inner comfort while filtering out UV and infrared radiation. Its semi-transparency reduces the need for artificial lighting, generates power, and provides thermal and sound insulation.



Crystalline Silicon Glass, Massachusetts State House, Boston, MA



Amorphous Silicon Glass, Massachusetts State House, Boston, MA

## Electrochromic glass

This glass is tinted electronically and can be switched from a clear to dark tint with the push of a button. It's programmable to respond to changing sunlight and heat conditions, providing the highest possible solar control without sacrificing views.



U.S. Naval Academy, Philadelphia, PA



Horseshoe Bend Swim & Tennis Club House, Roswell, GA

# Translucent insulated glass

For the highest quality of diffused light, translucent insulated glass converts harsh, direct-beam sunlight into softly diffused light in architectural daylighting projects. With this glass, you can design your desired light level without worrying about excessive heat gain, glare, or fading.



Jamesville-Dewitt High School, DeWitt, NY



Highlands Oncology Group, Rogers, AR

# Polycarbonate with aerogel fill

Made up of high-performance, lightweight panels, multiwall polycarbonate maintains high clarity with an outstanding balance of impact strength and high light transmission. The Lumira® aerogel fill provides superior insulating capabilities. Made of a dry silica particulate, aerogel is a lightweight insulation that provides beautifully diffused full spectrum daylight.

# High performance glass

High performance Low-E insulated glass options are available as an economical alternative to our other energy-efficient Advanced Glazings. These triple silver coated options are engineered to provide high visible light transmittance while controlling solar heat gain, which is essential for minimizing cooling costs.

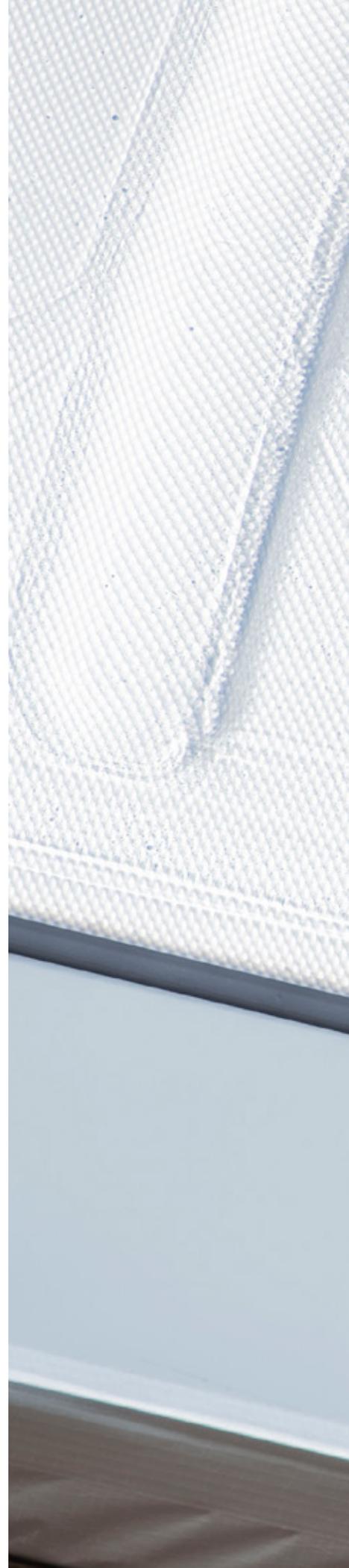


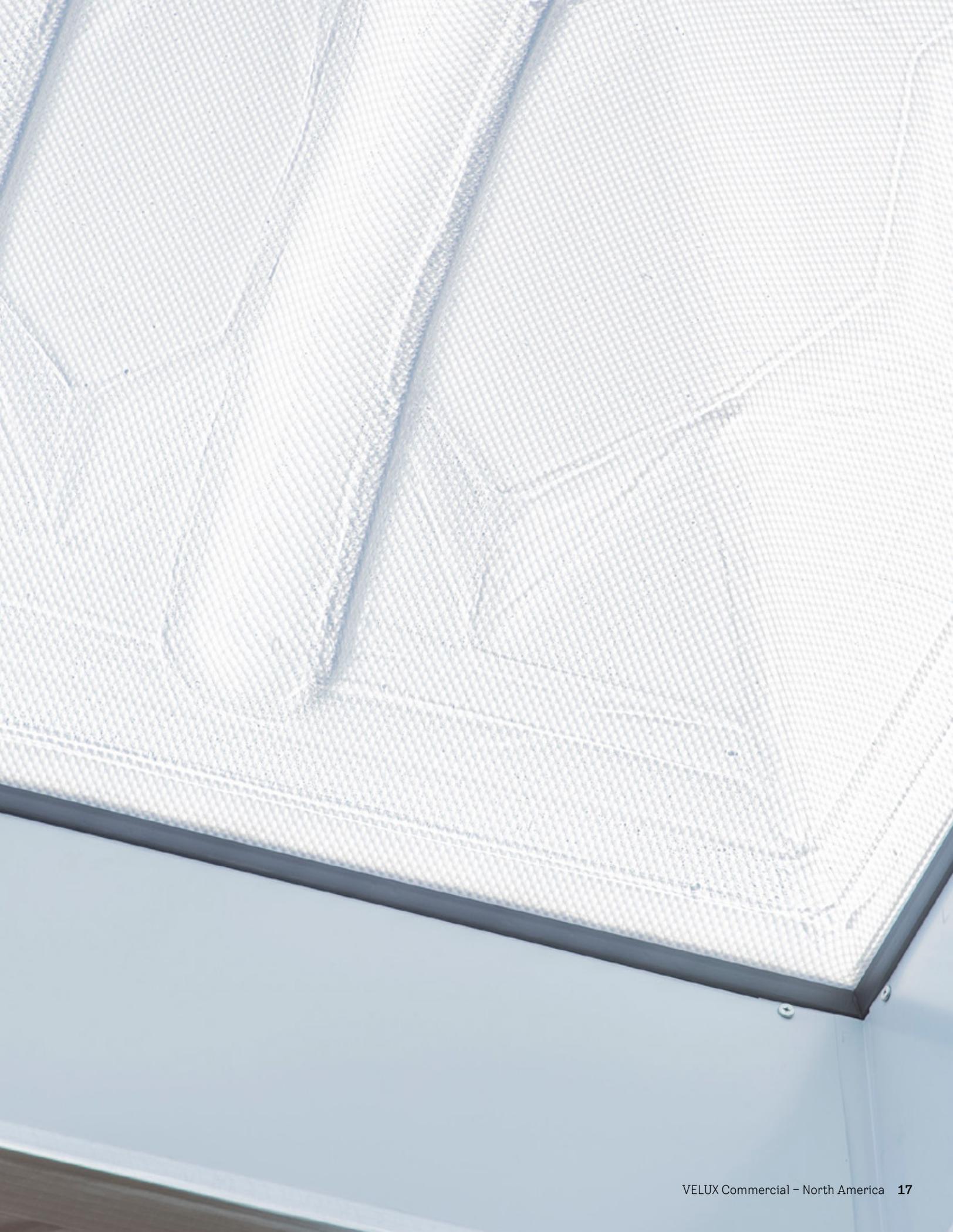
Northland Workforce Training Center, Buffalo, NY

# Unit Skylights

Versatile unit skylights for any commercial project

For affordable alternatives to custom skylighting systems, Unit Skylights offer a wide variety of choices. Unit Skylights are available in standard units, as well as highly energy-efficient, hurricane-rated, ESRF-rated, FM approved, circular, and glass glazed units.





# Dynamic Dome

## Light harvesting domes with industry leading strength

The Dynamic Dome is an innovative product that balances the structural demands of industry professionals with an architecturally progressive design. Engineered to closely match the angles of the sun during low-light periods to harvest more sunlight to transfer indoors, the Dynamic Dome offers uncompromising strength within a visually stunning architectural design.



### Available in 21 standard sizes

- Smooth Outer Dome, available in acrylic, impact acrylic, or LuxGuard polycarbonate
- White Prismatic Inner Dome achieves 100% diffusion/haze
- Sidewall of dome is engineered to match the sun angles of morning and afternoon hours to improve light transmittance
- Unique One-Piece Inner Frame evacuates all water and condensation harmlessly to the exterior
  - Dry installation – no caulk or curb tape needed
  - Impenetrable water barrier
  - No exposed holes to the exterior for air, water and bug filtration
  - 100% thermally broken
  - Fail-safe extra layer of water protection leaves no path for water to enter the building

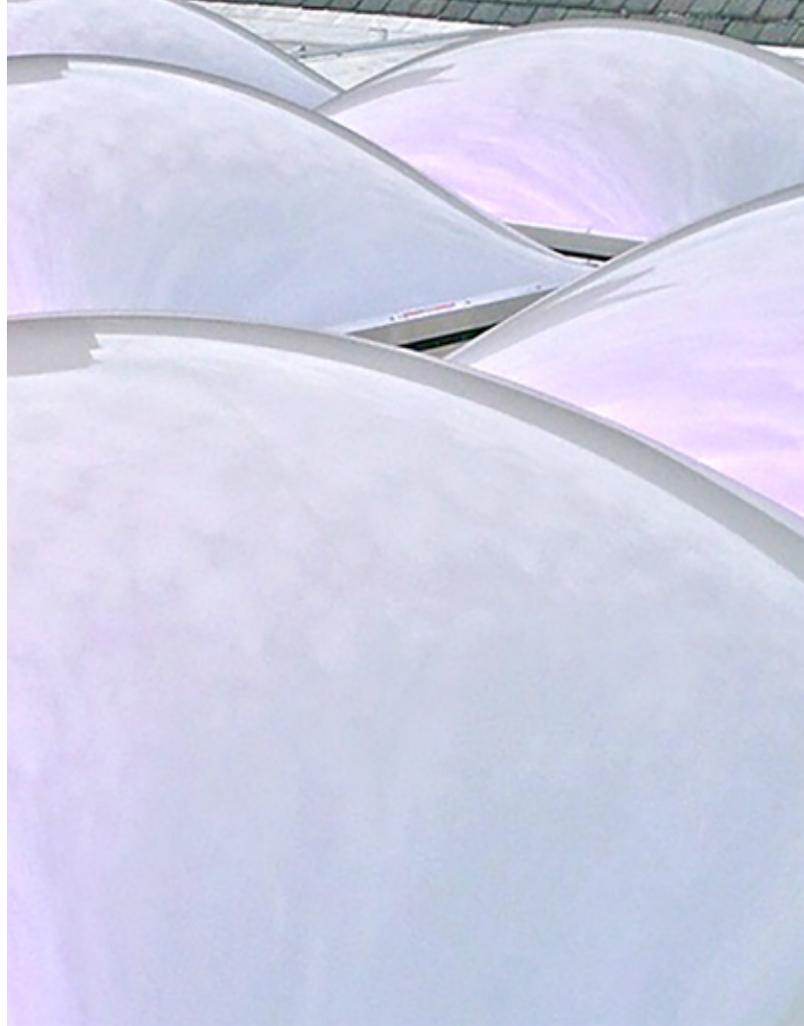


# EcoSky Series

## Thermally efficient unit skylights

A series of innovative acrylic sheet unit skylights, the EcoSky Series is ideal for hot and cold climates. Each EcoSky Skylight is a powerful sun reflector that greatly reduces solar heat gain in the building below.

EcoSky3 features aerogel-filled multiwall polycarbonate panel skylights, providing great energy efficiency while excellently diffusing sunlight flowing through.



## Available in custom or standard sizes

- Curb-mount and deck-mount models
- Traditional domed and Dynamic Dome models
- NFRC certified, meets IECC 2021 requirements in all climate zones
- Outer dome of Acrylite® Satin Sky 2
  - A powerful sun reflector that greatly reduces solar heat gain
  - Infrared blocking, light diffusing and 100% haze white
- EcoSky3 units available with Lumira® aerogel-filled multiwall polycarbonate panel skylites
  - Improved thermal performance and excellent light diffusion
  - Low SHGC
- 100% thermally broken



# Custom dome skylights

Dome skylights save on lighting costs

Dome Skylights are available as a wide variety of custom unit skylights, with glazing options that include hurricane-resistant. Custom Domes are ideal for visible applications that require a specific size and a classic appearance. Curb-mount units are manufactured to fit outside curb sizes to the nearest 1/4" with a 1/2" clearance on all sides. Deck-mount units are available with an insulated 9", 12" or 16" integral curb.



Giant Food Store, Fredericksburg, VA



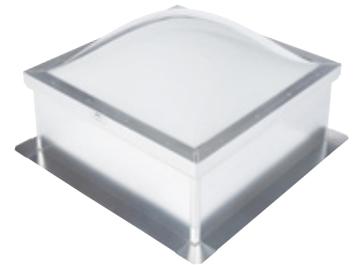
Traditional Dome



Hip Ridge Dome



Pyramid Dome



Deck-Mount Dome

# Tandem and cluster systems

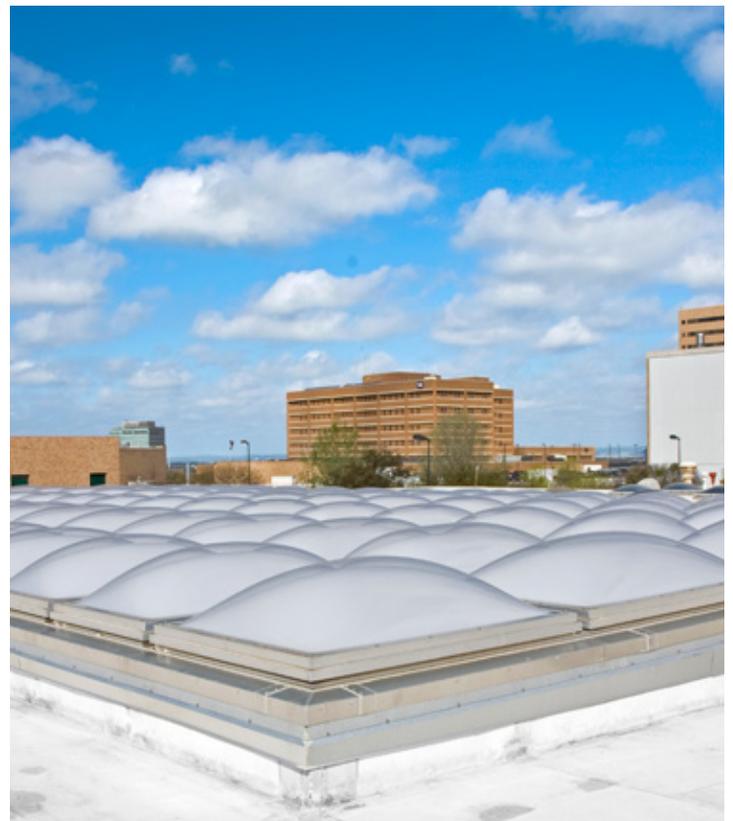
A scalable solution for flat roofs

Tandem Systems allows dome assemblies to be combined side by side in a single frame. Domes are separated by a structural purlin that does not require site-built support. Sizes are available up to 8' wide with unlimited lengths.

Cluster Systems allow for the creation of dramatic sky lighting over large enclosures, utilizing site-built structural grid supports on flat roof applications.



Tandem Units



Cluster System, Medical Office Building, San Antonio, TX

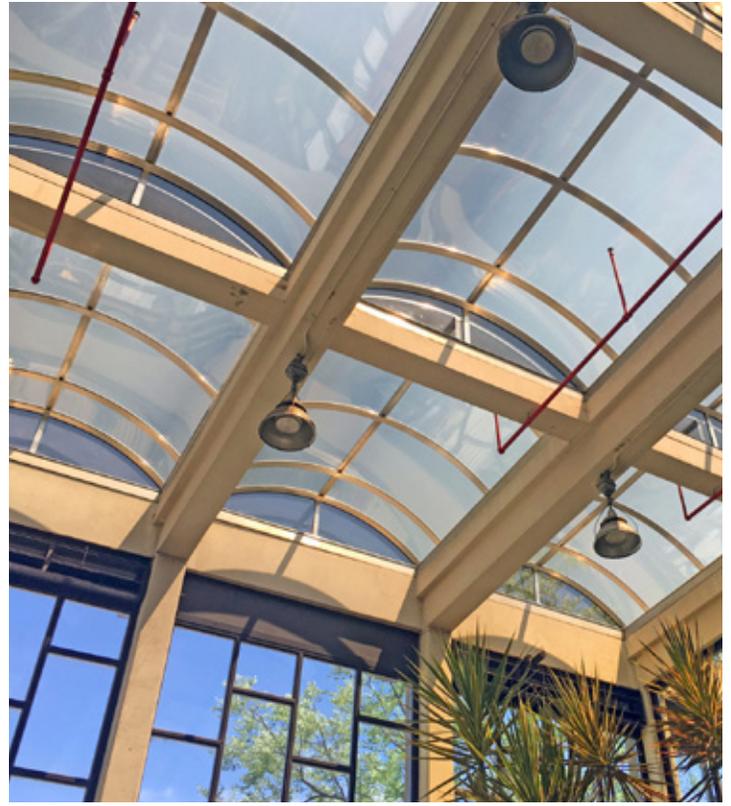
# Vaults

Open up new horizons with vaulted skylights

Available in Standard Rise, Half-Round, and Quarter-Round Vault configurations, the Continuous Vault Systems allow you to push the limits on your vaulted applications. Built on pre-fabricated or site-built curbs intended for flat roofs, each vault system is available with Lumira® aerogel-filled polycarbonate laylites for improved thermal performance and light diffusion.



Embassy Suites, Secaucus, NJ



University of New Mexico, Department of Biology, Albuquerque, NM

# Smoke vent skylights

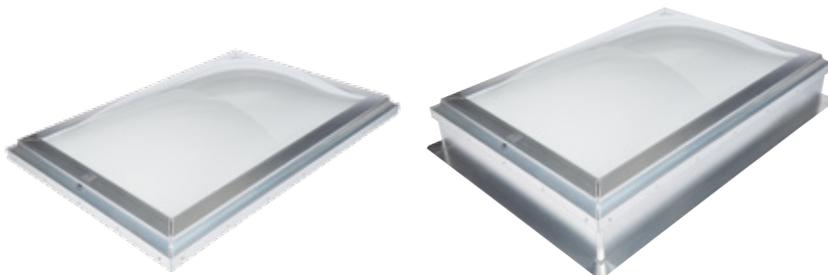
Mechanical and gravity-operated double domes

When smoke vents are required by code, VELUX offers lightweight double-leaf mechanical smoke vents for fire protection. These domes are FM 4430 approved and exceeds UL 793 listed standards for automatically-operated roof vents for smoke and heat.

Gravity-operated smoke vents are designed to automatically shrink and fall out in case of a fire. The optional ESFR-Rated fusible link-activated release mechanism ensures they only activate once the building reaches a certain temperature. Available in curb-mount and deck-mount models.



Warehouse, Livermore, CA



Gravity-Operated Smoke Vents

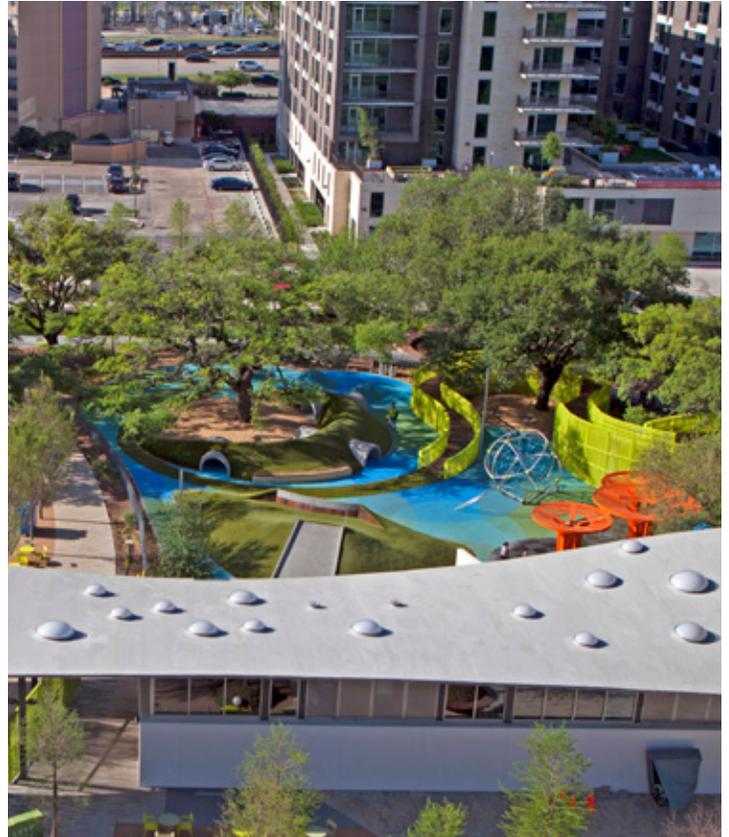


Mechanical Smoke Vents

# Circular units

Bring your skylights full circle

Circular units are constructed with a vinyl curb and rolled aluminum retainer, reducing condensation and increasing thermal performance by eliminating the need for weep holes. Units are available in six standard sizes with a wide variety of glazing options.



Circular Units, Levy Park Canopy, Houston, TX

# Glass units

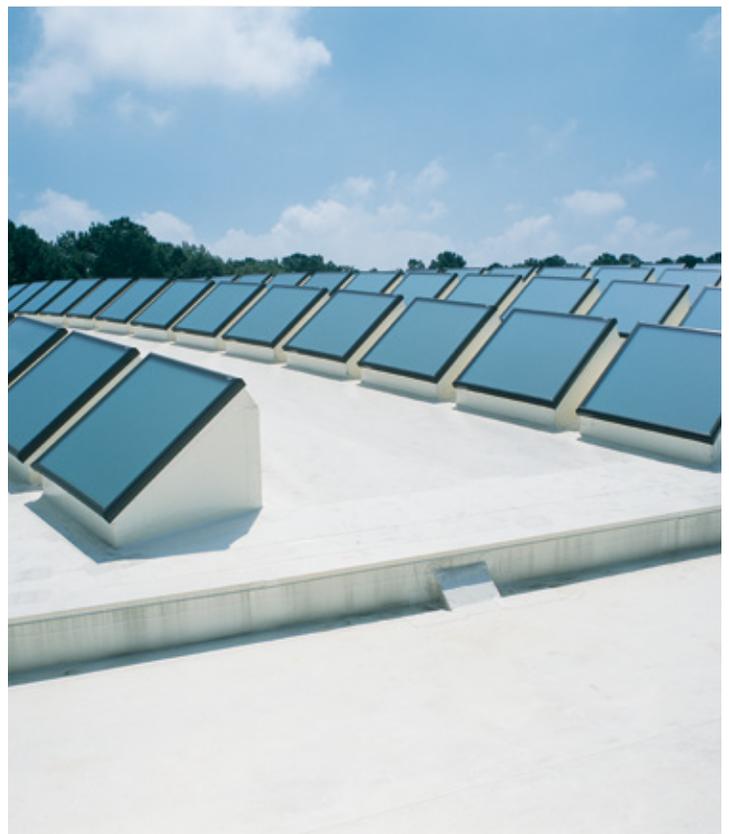
Custom sizes up to 35 square feet

Spanning up to 35 square feet, the SkyMax (GSM) is structurally reinforced and features a one-piece extruded vinyl curb with condensation channel eliminating the need for weep holes.

The commercial Fixed Curb-Mounted (FCM) Skylight is great for visually expanding interior spaces. An economical alternative, the FCM Skylight creates a spacious interior filled with natural light.



GSM SkyMax Units



FCM Units, YMCA, Atlanta, GA

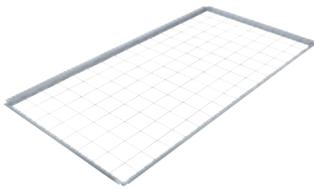
# Fall protection

Reinforce your safety measures

Skylights pose an inherent risk, and the safety of others is of the utmost importance to VELUX. We have developed a number of fall protection options to fit your building's needs and enhance long-term safety.

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

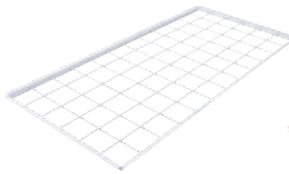
Exterior safety screens provide fall protection for flat roof, domed commercial skylights without damaging your skylight.



**CRGA ICD**  
Interior Safety Screen



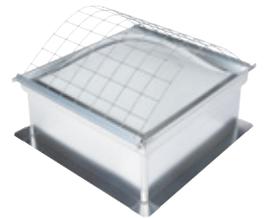
**CRGA SB**  
Interior Security Bars  
(5" o.c. one direction)



**CRGA BB**  
Interior Security Bars  
(8" o.c. both directions)



**CAE**  
Exterior Safety Screens for  
Dynamic Domes and Custom Units

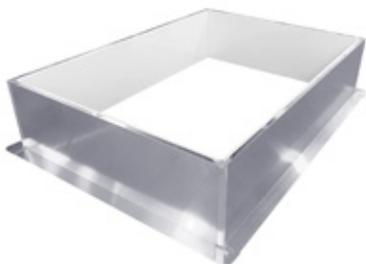


**CAEW/CAEB**  
Exterior Safety Screens for  
Custom Units and Vaults

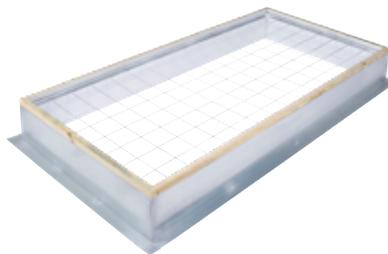
# Prefabricated curbs

An economical, convenient alternative to site-built curbs

Our prefabricated curbs are fully assembled to reduce installation time and cost, eliminating missing parts and the need for field assembly. They are available in insulated and non-insulated models as structural or non-structural.



**CCAW**  
Aluminum Curb, Insulated Double Wall



**CCA3**  
Steel Curb, Insulated Double Wall



**CCA6**  
Steel Curb, Non-Insulated Single Wall

# Sun Tunnel<sup>®</sup> Skylights

Compact and highly reflective

Available in curb-mount flashing and self-flashed models, commercial Sun Tunnel<sup>®</sup> skylights bring daylight into small, enclosed or confined spaces where typical daylighting solutions may not be an option.

Sun Tunnel<sup>®</sup> skylights are designed for flat or low-slope commercial roofing applications. Comprised of a round, highly reflective light shaft, Sun Tunnel skylights are a cost-effective method for transferring daylight through the roof.





# Sun Tunnel® skylights

Take it from the top... VELUX SunCurve

This highly transmissive, light capturing VELUX SunCurve comes standard on every 22" commercial Sun Tunnel® Skylight.

The SunCurve is designed to capture sunrays that would normally pass through the dome, and directs them down the tunnel instead.

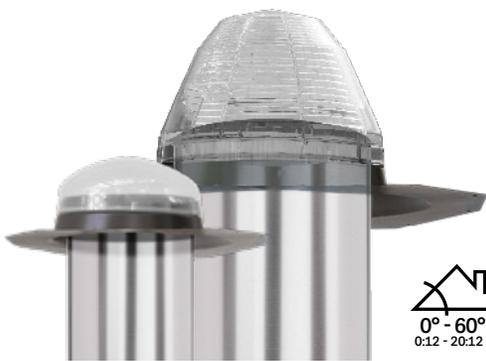


## Bring Daylight into Any Interior Space

The high-tech, efficient and easy to assemble light shaft systems provide an ideal solution for any application. VELUX Sun Tunnel® skylights provide greater cost savings as the length of the light shaft increases.



## Flashing & Dome Types



**TGC** Self-flashed 14" or 22"



**TCC** Curb-mounted 14" or 22"



**TMC** Pitched self-flashed 14"

## Diffuser Assembly Type



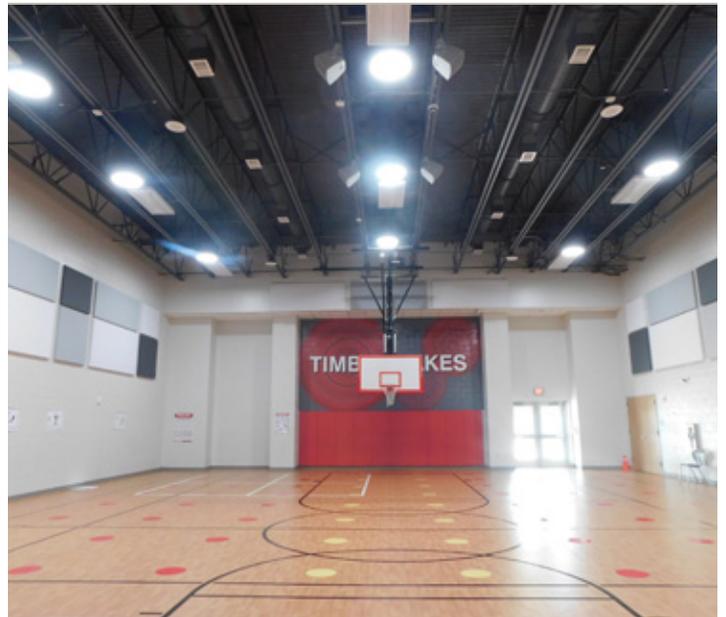
**THC** Hard ceiling 22" for drywall



**THC** Hard ceiling 14" for drywall



**TTC** Round to square assembly for suspended ceiling



**TOC** Open ceiling

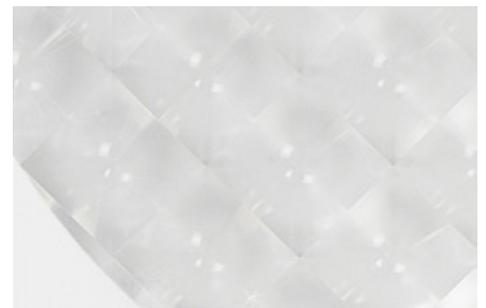
## Diffuser Material



**Frosted** Frosted diffusers offer a combination of performance and aesthetics.



**Prismatic** The industry standard prismatic diffusers provide good light distribution with the look and feel to match existing architectural design.



**Fresnel** Fresnel diffusers utilize a concentric pattern of parabolic prisms that provide superior light diffusion.