



**VELUX®**

Skylights

# Commercial Sun Tunnel Skylights

Capturing daylight for the workplace

# Why VELUX?

VELUX is the world leader in skylight and roof window manufacturing, and one of the strongest brands in the global building materials sector. Our products are available nationwide. This generation of VELUX Sun Tunnel Skylights is easier to install, delivers more daylight, puts you in control of the light, and can be specifically configured for any application.

## Where to install VELUX commercial Sun Tunnels Skylights

VELUX Commercial Sun Tunnel Skylights are engineered to assemble quickly and transfer the highest amount of daylight into dark spaces below. Designed for a flat or sloped commercial roofs, the round, highly reflective light shaft provides a cost effective method for transferring high quality daylight through the roof to where people live, work, and play.

Ideal applications for the VELUX Commercial Sun Tunnel Skylights include schools, retail spaces, and medical facilities, where excellent light quality for reading and accurate color rendition are required.





# Take it from the top... VELUX SunCurve



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

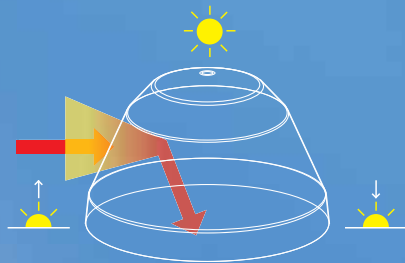
Designed to capture sunrays that would normally pass through the dome, and instead directs them down the tunnel.



*22" kit includes outer dome and VELUX SunCurve*

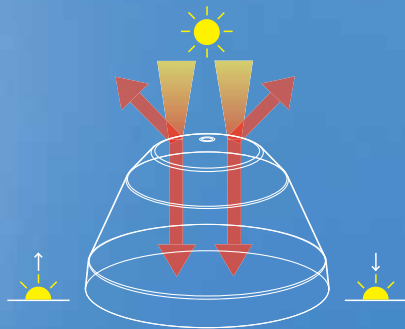


# What makes the VELUX SunCurve better?



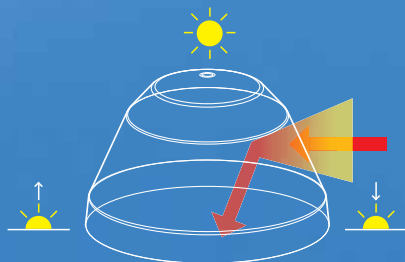
## Morning light

Captures low-angle sunlight and curves it down the tunnel.



## Mid-day light

Manage the intense, direct mid-day sun so that the space below is bright and comfortable without glare.



## Afternoon light

Captures low-angle sunlight and curves it down the tunnel.



**Maximum security kit (ZTQ)**  
Crossing steel bars and security screws  
for both the dome and curb flashing.  
*Available for 14" and 22"*



**Diffusion enhancer (ZTZ 209)**  
Increase the diffusion capabilities of your  
VELUX Sun Tunnel Skylight.



**24" rigid tunnel sections (ZTR)**  
Tunnel sections manufactured with the Flexi Loc  
tunnel connector system that reduces tunnel  
installation time by half, delivering the highest  
quality daylight into the spaces below.

## From point A to point B

**Universal 45-degree elbows (ZTE)**  
A durable and easy to operate elbow that can be used at  
the top, bottom, or middle of your installation.



**Rotating coupler (ZTZ 211)**  
Multiple elbows can be joined  
together with rotating couplers  
to form a 90-degree bend or  
other configuration needed to  
maneuver around in tight spaces.



**Turret extender (ZTA)**  
Flashing extender that raises the edge of the dome for increased protection and better performance in flat roof applications.



**Exterior fire band (ZZZ 192)**  
Fire band provides dome edge protection needed for installation on roof assemblies with fire classifications of A, B or C.



**Insulating pane - thermal break (ZTC)**  
Insulating pane and thermal break designed to go in line with the building's insulation in commercial applications.



**Daylight controller (ZTP)**  
Variable position light-damping system that allows the user to control the amount of daylight that enters a room; perfect for rooms that require room-darkening. Requires a 120/277VAC to 24VDC power supply (VELUX ZZZ 233).



## Flexi Loc™ quick assembly system

A tunnel connection system that reduces tunnel installation time in half. With our unique Flexi Loc™ system, screws are a thing of the past. Use this unique clip system to piece your elbows, tunnel sections and other rigid tunnel components together quicker.



## Highly reflective daylight tunnel

All VELUX Sun Tunnel Skylights feature a highly reflective silver layer that is electrostatically applied.

- Creates an ultra smooth and efficient light delivery system
- Protective coatings are applied to guarantee a long-term total 99% reflectivity

**20-year  
rigid tunnel  
reflective  
warranty**

# Diffuser Options

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Choose from a variety of ceiling options to meet all your application needs.  
Available in 14" and 22"



# Diffuser Materials

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## Frosted diffuser

Frosted diffusers offer a combination of performance and aesthetics.



## Prismatic diffuser

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



## Fresnel diffuser

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



# Flashing Types

Choose the right flashing type for your installation from the choices below:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Flat roof application: Self flashed model TGC 014 000</b></p> <p>TGC 014 0000 Acrylic Dome<br/>TGC 014 1000 Impact Dome</p> <ul style="list-style-type: none"> <li>• Lower profile dome</li> <li>• Low profile pan flashing</li> <li>• Flexi Loc tunnel system</li> <li>• 16" tunnel extension</li> <li>• Roof pitch 0°-60°</li> </ul>        | <p><b>Flat roof application: Curb mount flashing model TCC</b></p> <p>TCC 014 0000 Acrylic Dome<br/>TCC 014 1000 Impact Dome</p> <ul style="list-style-type: none"> <li>• Lower profile dome</li> <li>• Low profile curb mount flashing</li> <li>• Flexi Loc™ tunnel system</li> <li>• 16" tunnel extension</li> <li>• Roof pitch 0°-60°</li> </ul>         |
| <p><b>Pitched roof application: Model TMC</b></p> <p>TMC 014 0000 Acrylic Dome<br/>TMC 014 1000 Impact Dome</p> <ul style="list-style-type: none"> <li>• Lower profile dome</li> <li>• 20° pitched pan flashing</li> <li>• Flexi Loc tunnel system</li> <li>• 16" tunnel extension</li> <li>• Roof pitch 14°-60°</li> </ul>                     | <p><i>VELUX Sun Tunnel Skylights are designed to fit all your installation needs.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p><b>Flat roof application: Self flashed mount model TGC</b></p> <p>TGC 022 3000 Acrylic Dome<br/>TGC 022 5000 Impact Dome</p> <ul style="list-style-type: none"> <li>• High profile SunCurve</li> <li>• Low profile pan flashing</li> <li>• Flexi Loc tunnel system</li> <li>• 16" tunnel extension</li> <li>• Roof pitch 0°-60°</li> </ul>   | <p><b>Flat roof application: Curb mount flashing model TCC</b></p> <p>TCC 022 3000 Acrylic Dome<br/>TCC 022 5000 Impact Dome</p> <ul style="list-style-type: none"> <li>• High profile SunCurve</li> <li>• Low profile curb mount flashing</li> <li>• Flexi Loc tunnel system</li> <li>• 16" tunnel extension</li> <li>• Roof pitch 0°-60°</li> </ul>   |

# Two ways to order

Order kits in 3 easy steps for bulk purchasing

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## Option 1: Configurable kits - Time-saving and easy-to-order

### Step 1: Select your size, dome type and flashing



Acrylic  
or  
Impact



14" Self  
(TGC)



14" Curb  
(TCC)



14" Pitched  
(TMC)



22" Self  
(TGC)



22" Curb  
(TCC)

### Step 2: Select your tunnel components



Tunnel extensions  
(ZTR)



Elbows  
(ZTE)



Tunnel kit  
(TTK)

### Step 3: Select your diffuser and assembly type



Frosted



Prismatic



Fresnel



Hard ceiling  
(THC)



Suspended ceiling  
(TTC)



Open ceiling  
(TOC)

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## Option 2: Bulk purchasing - Ideal for large projects

- Purchase VELUX Sun Tunnel Skylight components in bulk quantities for additional savings
- Best way to receive value engineered project specific quotes
- Please call 1-888-878-3589 or reference the commercial skylight price list for pricing and product availability

For customized configurations please call 1-888-878-3589



# Testing data

## Commerical Sun Tunnel Skylights

| Commercial Sun Tunnel Skylights Technical Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              |         |         |           |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------|---------|-----------|---------|
| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TCC 014                                                      | TGC 014 | TMC 014 | TCC 022   | TGC 022 |
| <b>Air infiltration/exfiltration*</b><br>[max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                              |         |         |           |         |
| l/s/m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.4                                                          |         |         | 1.5       |         |
| cfm/ft <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.28                                                         |         |         | 0.3       |         |
| <b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr)*</b><br>[max. tested differential pressure with no leakage]                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              |         |         |           |         |
| Pascals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 720                                                          |         |         | 720       |         |
| lbs/ft <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15                                                           |         |         | 15        |         |
| <b>Thermal performance</b><br>(Certified, complete unit values)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                              |         |         |           |         |
| VELUX Sun Tunnel Skylights are labeled with certified U-Factor (with insulation at ceiling),<br>and SHGC ratings, as listed in the NFRC Certified Products Directory                                                                                                                                                                                                                                                                                                                                                                  |                                                              |         |         |           |         |
| <b>Installation type</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>U-factor: Btu/[hr*ft<sup>2</sup>*F°]</b>                  |         |         |           |         |
| Insulation at roof<br>with Commercial<br>Energy Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.55                                                         |         |         | 0.43      | 0.41    |
| Insulation at ceiling<br>with residential<br>energy kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.38                                                         |         |         | n.r.      | n.r.    |
| <b>Installation type</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>SHGC: US ratings shown for models with EO energy kits</b> |         |         |           |         |
| Insulation at roof<br>with Commercial<br>Energy Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.28                                                         |         |         | 0.22      | 0.26    |
| Insulation at ceiling<br>with residential<br>energy kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.25                                                         |         |         | n.r.      | n.r.    |
| <b>Structural Performance*</b><br>Performance Grades or DP in psf: NAFS-11 (NAFS-08) [Note: 1 psf = 47.88 Pa]                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                              |         |         |           |         |
| Dome type **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Uplift (negative)                                            |         |         |           |         |
| Acrylic or<br>Polycarbonate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 145 (110)                                                    |         |         | 130 (100) |         |
| Dome type **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Download (positive)                                          |         |         |           |         |
| Acrylic or<br>Polycarbonate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 300 (200)                                                    |         |         | 300 (200) |         |
| Temp. Glass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 150 (150)                                                    | n.a.    |         |           |         |
| <p>* Tested and certified in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)</p> <p>VELUX® Sun Tunnel Skylights are WDMA Hallmark certified as indicated above and below<br/>(See <a href="http://www.wdma.com">www.wdma.com</a>, Hallmark Nos. 426-H-626,-693,-705,-706)</p> <p>** Products with Polycarbonate domes are tested for Wind-Borne debris impact and pressure cycling<br/>in accordance with ASTM E 1886-05 and ASTM E 1996-05.<br/>-- Rated for Wind Zone 3, Missile Level C, Cycle Pressure +50/-50 --</p> |                                                              |         |         |           |         |

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*Bringing light to life*™

**VELUX®**