

Product Guide

Skylights &
Sun Tunnels

Effective February 1st, 2017

VELUX[®]

The No Leak Skylight[™]



A-Z Pro Carpentry LTD,
VIP Elite Installer, Vancouver BC

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For over 75 years, the VELUX Group has been bringing fresh air and daylight through the roof into people's homes worldwide. We are the most trusted brand worldwide by homeowners and building professionals. At VELUX, we stand behind our products by bringing, to you in Canada, products that are best suited and built to withstand our extreme Canadian climate. Not only do we offer the most durable skylight in the industry, we provide our recommendation for which products are best suited for your home. All that combined with superior customer service and the best warranty on the market. Our product range has been tested and certified to ensure consistent product performance in every box.

As we see new homes across Canada being built closer and closer together, the need for daylight and fresh air has never been greater. Did you know skylights, due to their angle relative to the sun, provide 200% more daylight than a vertical window? Not to mention privacy from your neighbour's window is usually not a concern with a skylight. The concept of ample natural light and fresh air in a home is a basic philosophy for us. For that reason, VELUX has joined a global building design initiative called Active House. Active House is unlike any other certification in the industry because it evaluates three core principles: *Comfort, Environment and Energy*. While much of the environment and energy categories are taken into consideration in the design phase, what homeowners get to experience is a greater focus on *Comfort*.

Comfort means better and more *daylight* throughout the home that reduces your need for artificial lights during the day, better *indoor air quality* for a more comfortable sleep and more *fresh air*

throughout the home by reducing the need for air conditioning and creating a healthier environment by removing harmful gases and toxins.

The VELUX Group continues to invest in the future and are at the forefront of technological advancements within our category. We were the first to launch the Solar Powered Venting Skylight and more recently announced a partnership with Netatmo launching VELUX Active; an innovative indoor climate solution that will allow users to automate their programmable skylights and blinds based on a range of indoor climate parameters ensuring optimum indoor climate in the home.

Just as a great chef needs the right ingredients, a well-engineered skylight requires the proper installation in order for the complete system to work. Our VELUX Installers Program is designed with you in mind so that you can fully enjoy the benefits of the complete package by working with a certified installer. We are the only skylight manufacturer to invest in an installer's training program to ensure quality installations across Canada. To find a member of the VELUX Installers Program in your area visit velux.ca.

We hope that this guide inspires and provides you with solutions to create a more comfortable and better living environment. We want you and your family to have peace of mind and enjoy the VELUX experience of daylight and fresh air through the roof.

Nels Moxness
President & CEO, VELUX Canada Inc.

Why skylights are so important

x2

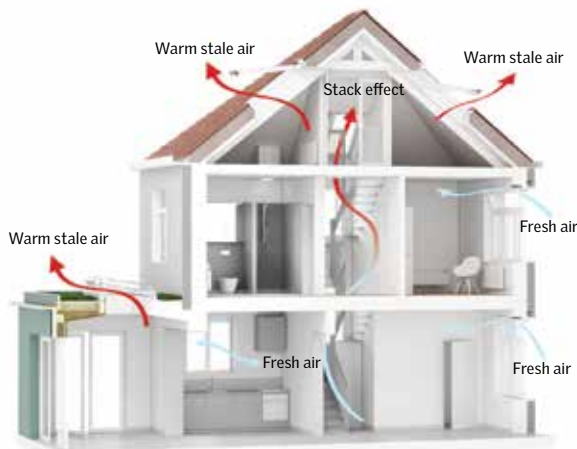
FACT:

Skylights can deliver 2 times the amount of daylight as vertical windows

Getting the right amount of daylight is essential for our health and well-being; it improves our mood and fights Seasonal Affective Disorder (SAD). Skylights can deliver 2 times the amount of daylight as vertical windows greatly reducing the need for artificial light and lowering electricity costs. Skylights and Sun Tunnels are a perfect solution to getting the right amount of natural light into your home. We spend 90% of our time indoors and we need the right levels of daylight. Add drama and style to your home!

FACT:

2-4 airings of your home per day with a VELUX programmable skylight helps to achieve optimum indoor air quality



Hot air rises and cold air sinks. This is the underlying concept of the stack effect, a design approach that greatly enhances natural airflow and ventilation in homes. The stack effect promotes skylights and vertical windows working together to achieve optimal indoor air performance.

As the vertical windows circulate the air within the space, hot air, odours, and toxins rise to the highest point in the home. By opening your skylight those gases escape through the roof creating a healthier indoor environment. You can also reduce the need for air conditioning in the summer months saving on electricity.

Enjoy a good night's sleep and love your home again!



Fact: VELUX first commercialized the skylight over 75 years ago

Since 1941, VELUX has brought natural light and fresh air into millions of homes worldwide. As the world's leader in skylights, Sun Tunnels and roof windows VELUX is one of the strongest global brands.

Trust the brand with over 75 years of engineering excellence.



15%











FACT:

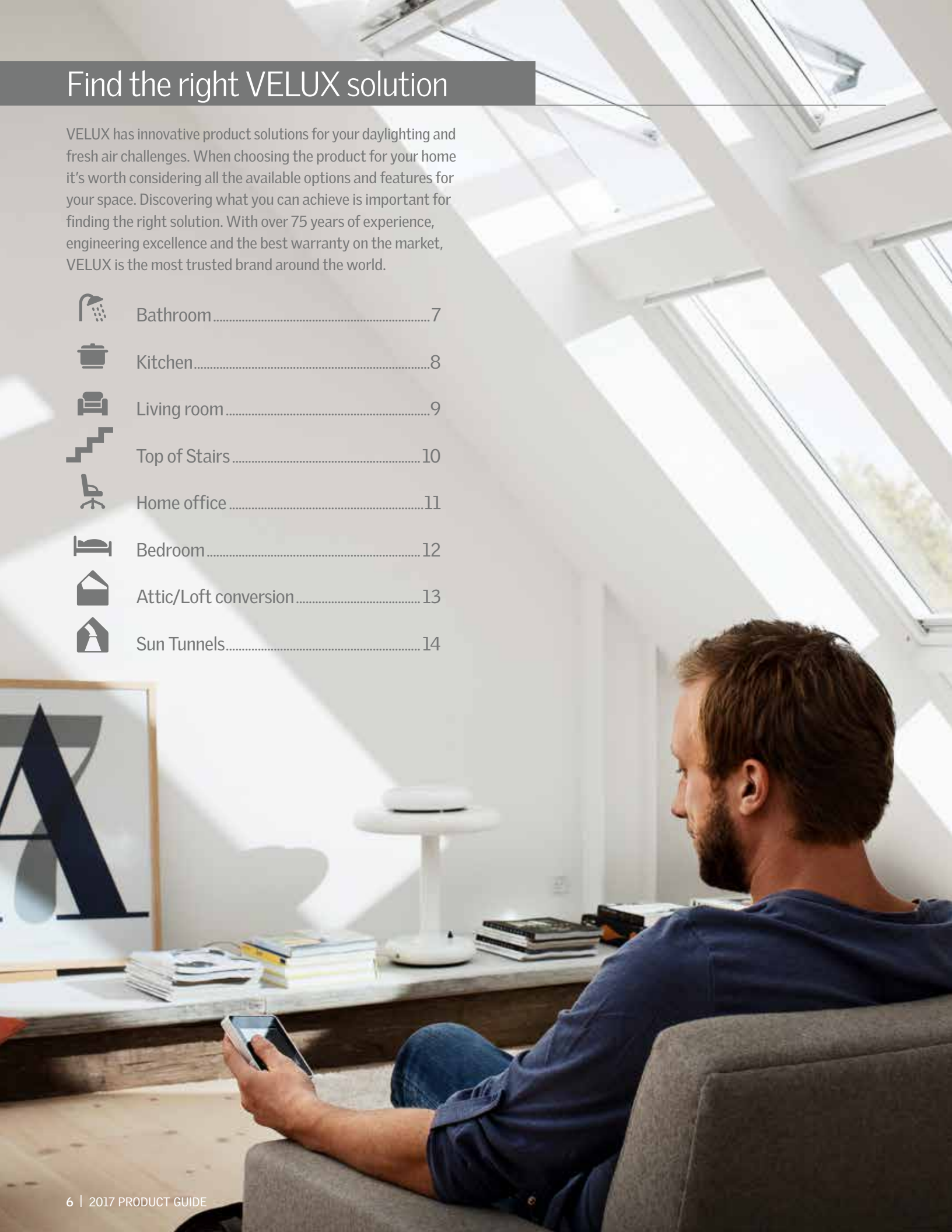
Children's learning abilities increase up to 15% if they are in a good indoor climate and we spend 90% of our time indoors.

Studies show that children benefit from a good indoor climate. But what makes a good indoor climate? The combination of daylight and fresh air. That is why programmable skylights are so important for creating a healthier living and learning environment for you and your family.

Find the right VELUX solution

VELUX has innovative product solutions for your daylighting and fresh air challenges. When choosing the product for your home it's worth considering all the available options and features for your space. Discovering what you can achieve is important for finding the right solution. With over 75 years of experience, engineering excellence and the best warranty on the market, VELUX is the most trusted brand around the world.

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VELUX is more than just a skylight



Did you know that the best lighting for make-up application is natural light?

Bathroom

- ▶ Does your bathroom have little to no access to natural light?
- ▶ Does your bathroom window overlook your neighbour's house?
- ▶ Do you want more privacy but still need daylight?

Solution

The Solar Powered Venting Skylight brings in an abundance of natural daylight while also allowing you to let the steam out after a hot bath or shower. Enjoy privacy, an unobstructed view and a sophisticated design touch.



For more inspiration, videos and to find a certified member of the VELUX Installers Program go to – velux.ca

VELUX is more than just a skylight



Did you know that a programmable skylight helps to keep your kitchen fresh during and after cooking?

Kitchen

- ▶ Is your kitchen the hub of your home?
- ▶ Do you find you turn on every light to cook?

Solution

VELUX programmable skylights not only let in natural light, they give you the control to properly air out your home. These sophisticated models come with an integrated rain sensor to close during inclement weather.



For more inspiration, videos and to find a certified member of the VELUX Installers Program go to – velux.ca





Bring the family together
in a space that feels bigger!

activehouse .INFO
BUILDINGS THAT GIVE MORE THAN THEY TAKE

Living Room

- ▶ Did you know that adding a skylight or combining multiple units will create an architectural statement in the heart of your home?
- ▶ Did you know that you could reduce TV glare by adding a blind?

Solution

VELUX skylights with Neat coating reduces unwanted noise by up to 25% and come with a 10 year Hail Warranty. Protect your most precious assets and enjoy the benefits of more daylight and fresh air.



For more inspiration, videos and to find a certified member of the VELUX Installers Program go to – velux.ca

VELUX is more than just a skylight



Top of Stairs

- ▶ Did you know that studies show that natural light helps prevent Seasonal Affective Disorder (SAD)?
- ▶ Did you know that placing a skylight over a stairwell allows for a more even light distribution?
- ▶ Feel safer on your stairs with more natural light.

Solution

Let daylight shine into the core of your home. Consider a programmable venting skylight to create a natural multi-level ventilation system for a healthier, fresher and brighter home.



For more inspiration, videos and to find a certified member of the VELUX Installers Program go to – velux.ca



Did you know that a skylight over the stairs sheds natural light to multiple floors?



Did you know that working in natural light will lessen eyestrain causing less headaches?



Home Office

- ▶ Did you know that adding natural light to your home office or studio would increase productivity, minimize mistakes, and improve your mood?

Solution

VELUX Skylights shed natural light into workspaces. Work better, study harder with the right amount of natural light. Consider adding a blind to control the amount of light in the room and reduce glare. Let your skylight do more for you.



For more inspiration, videos and to find a certified member of the VELUX Installers Program go to – velux.ca

VELUX is more than just a skylight

Bedroom

▶ Did you know that good indoor air quality can help you sleep better at night?

Solution

There is nothing like the nighttime view of the stars from bed. Enjoy waking up to natural light and a view of the sky. With the solar powered room darkening programmable blinds you can get a good night's rest and still wake-up with natural light when you want.



For more inspiration, videos and to find a certified member of the VELUX Installers Program go to – velux.ca





Attic/Loft conversion

- ▶ Looking for more square footage?
- ▶ Increase the value of your home.

Solution

Transform your dark attic space into a usable bright space. Add a bedroom, studio or study to your home that is flooded with natural light.



For more inspiration, videos and to find a certified member of the VELUX Installers Program go to – velux.ca

VELUX is more than just a skylight

Sun Tunnel™ Skylight

- ▶ Easiest skylight for your new home or renovation.
- ▶ Did you know that a Sun Tunnel installation has no structural changes to the home?

Solution

Bring daylight into every corner and interior room of your home. The VELUX Sun Tunnel Skylight is a quick and easy solution for bringing natural light into rooms such as hallways, bathrooms, kitchens, walk-in closets, etc. Save on energy bills and give your home a healthy, bright and inviting feeling throughout the day.



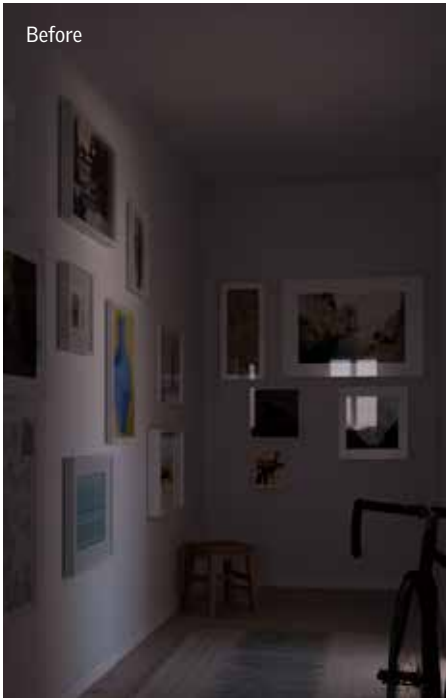
How Sun Tunnels Work

1. Sunlight is captured on the roof.
2. Light travels through highly reflective tunnel.
3. Light is distributed in room.



For more inspiration, videos and to find a certified member of the VELUX Installers Program go to – velux.ca





Choosing the right skylight glass



VELUX glass has an advanced triple LoE protective coating that provides maximum daylight and heat control for year-round comfort and energy savings. All glass offers some degree of protection from heat loss & gain, fading and sound.

Laminated glass with Neat® coating (04/10 codes)



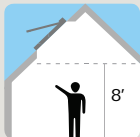
Benefits of Laminated Glass with Neat® coating

Silicon dioxide makes Neat® glass a smoother surface allowing for water to disperse evenly and evaporate quickly reducing water spots.



Clean

Features Neat® glass coating to keep your skylight cleaner, longer, leaving skylights virtually spotless.



Safe

VELUX recommends laminated glass for out-of-reach applications. Standard on all venting skylight models.



Hail warranty*

10 year warranty on laminated glass with Neat® coating on cracking or breakage due to hail.



Quiet

Reduce unwanted outside noise by up to 25% less than a standard double pane glass, and up to 50% less than a plastic skylight.

Out-of-reach glass options

Laminated glass with Neat® coating

Dual pane laminated glass is standard on all venting models.



CleanComfortPlus glass (04 code)

- Exterior tempered safety glass.
- Triple coated with LoE, dual sealed and injected with Argon gas.
- Laminated interior pane for added safety and protection from UV rays.
- Excellent energy efficiency and thermal performance.



CleanEnergyPlus glass (10 code)

- Exterior tempered safety glass.
- Triple coated with LoE, dual sealed and injected with Argon gas.
- Tempered and laminated inner pane for additional strength for high snowload.
- High energy efficiency and thermal performance.

*Hail warranty is subject to certain conditions. Call VELUX for more information. ComfortPlus glass for Roof Windows includes a single layer of LoE. Other glazings available, call for details.



Out-of-reach tempered glass options

Triple pane

Triple pane provides 3 layers of glass and is suitable for out-of-reach applications.



Triple pane laminated (29 code)

- Exterior 2 panes are tempered safety glass.
- Inner pane is laminated glass.
- Triple coated with LoE, dual sealed and injected with Argon gas.
- High energy efficiency and thermal performance.
- Available in select FCM sizes.
- **Meets Vancouver building code.**



Triple pane (30 code)

- 3 layers of tempered safety glass.
- Triple coated with LoE, dual sealed and injected with Argon gas.
- Protects against fade-causing UV rays.
- High energy efficiency and thermal performance.
- Available in select FCM sizes.

In-reach glass option

Tempered glass

Tempered glass has been triple coated with LoE, dual sealed and injected with Argon gas.



Comfort glass (05 code)

- Exterior and interior tempered glass.
- Triple coated with LoE, dual sealed and injected with Argon gas.
- Basic glass for fixed in-reach skylights.

For information on Energy Star zones see page 35.



The No Leak Skylight™



Celebrating over 75 years
of engineering excellence

Things you should know about skylight installations

- Don't get stuck using caulking. Caulking naturally breaks down faster and this is accelerated when exposed to the extremities of the Canadian climate.
- Self-flashed skylights are not comparable to deck mount skylights due to the installation. Self-flashed skylights require tar and caulking for installation which breaks down faster causing leaks due to the harshness of our Canadian climate.

The Deck Mount Skylight

The best skylight on the market!

Our Deck Mount skylight has superior waterproof technology, a low profile for enhanced aesthetics and is energy efficient. It is the best skylight on the market and ideal for:



- Renovation projects/new cuts



- Replacement projects



- New construction



- Combination skylight installations

The Curb Mount Skylight

The VELUX Curb Mount skylight is unlike any other curb mount on the market and is ideal for:

- Replacing old plastic, acrylic and clear glass skylights
- Designed and tested to perform on low slope/flat roofs
- Fixed units can be installed sideways for more versatility

Three layers of water protection

The VELUX Curb Mount skylight features 3 layers of water protection and is the best choice for replacing old curb skylights.

- 1. Adhesive underlayment** for secondary water protection against the harshest weather conditions and to waterproof the curb.
- 2. Engineered flashing** is easy to install and the primary defense against the elements.
- 3. Curb gasket** on the inner frame of the skylight provides an airtight seal to the curb. No caulking required.



1. **Pre-attached deck seal** provides a seal between the frame and roof deck for a leak-proof installation.
2. **Adhesive underlayment** for secondary water protection against the harshest weather conditions.
3. **Engineered flashing** is easy to install and primary defense against the elements.



Neutral grey frame attracts less heat and is the best colour to blend with most roof colours including; black, grey, brown, etc.

Three layers of water protection

The VELUX Deck Mount technology features 3 layers of water protection. It is the only skylight to provide a direct seal to the roof deck greatly reducing installation time and extra materials on the roof.



3. **Curb gasket on the inner frame of the skylight**, therefore no caulking required.

Deck Mount Skylights

Step 1: Pick your application and model

Out-of-reach applications



VSS – Solar Powered Venting



Size	C01	C04	C06	C08	M02	M04	M06	M08	S01	S06
Outside frame (W" x H")	21 1/2 x 27 3/8	21 1/2 x 38 3/8	21 1/2 x 46 1/4	21 1/2 x 54 15/16	30 3/16 x 30 1/2	30 3/16 x 38 3/8	30 3/16 x 46 1/4	30 3/16 x 54 15/16	44 3/4 x 27 3/8	44 3/4 x 46 1/4
Rough opening (W" x H")	21 x 26 5/8	21 x 37 3/8	21 x 45 3/4	21 x 54 7/16	30 1/16 x 30	30 1/16 x 37 3/8	30 1/16 x 45 3/4	30 1/16 x 54 7/16	44 1/4 x 26 5/8	44 1/4 x 45 3/4



VSE – Electric Venting



Size	C01	C04	C06	C08	M04	M06	M08	S01	S06
Outside frame (W" x H")	21 1/2 x 27 3/8	21 1/2 x 38 3/8	21 1/2 x 46 1/4	21 1/2 x 54 15/16	30 3/16 x 38 3/8	30 3/16 x 46 1/4	30 3/16 x 54 15/16	44 3/4 x 27 3/8	44 3/4 x 46 1/4
Rough opening (W" x H")	21 x 26 5/8	21 x 37 3/8	21 x 45 3/4	21 x 54 7/16	30 1/16 x 37 3/8	30 1/16 x 45 3/4	30 1/16 x 54 7/16	44 1/4 x 26 5/8	44 1/4 x 45 3/4

In-reach applications



VS – Manual Venting



Size	C01	C04	C06	C08	M02	M04	M06	M08	S01	S06
Outside frame (W" x H")	21 1/2 x 27 3/8	21 1/2 x 38 3/8	21 1/2 x 46 1/4	21 1/2 x 54 15/16	30 3/16 x 30 1/2	30 3/16 x 38 3/8	30 3/16 x 46 1/4	30 3/16 x 54 15/16	44 3/4 x 27 3/8	44 3/4 x 46 1/4
Rough opening (W" x H")	21 x 26 5/8	21 x 37 3/8	21 x 45 3/4	21 x 54 7/16	30 1/16 x 30	30 1/16 x 37 3/8	30 1/16 x 45 3/4	30 1/16 x 54 7/16	44 1/4 x 26 5/8	44 1/4 x 45 3/4

Fixed non-opening applications



FS – Fixed



Size	A06	C01	C04	C06	C08	C12	D26	D06	M02	M04	M06	M08	S01	S06
Outside frame (W" x H")	15 1/4 x 46 1/4	21 1/2 x 27 3/8	21 1/2 x 38 3/8	21 1/2 x 46 1/4	21 1/2 x 54 15/16	21 1/2 x 70 3/4	23 3/4 x 23 3/16	23 3/4 x 46 1/4	30 3/16 x 30 1/2	30 3/16 x 38 3/8	30 3/16 x 46 1/4	30 3/16 x 54 15/16	44 3/4 x 27 3/8	44 3/4 x 46 1/4
Rough opening (W" x H")	14 1/2 x 45 3/4	21 x 26 5/8	21 x 37 3/8	21 x 45 3/4	21 x 54 7/16	21 x 70 1/4	22 1/2 x 22 15/16	22 1/2 x 45 3/4	30 1/16 x 30	30 1/16 x 37 3/8	30 1/16 x 45 3/4	30 1/16 x 54 7/16	44 1/4 x 26 5/8	44 1/4 x 45 3/4

Works with 24" on centre roof truss.



Step 2: Pick your glass



Out-of-reach installations

CleanComfortPlus (04 code) and **CleanEnergyPlus (10 code)** is strongly recommended for out-of-reach applications.

All VELUX skylights with laminated glass come with Neat® coating to keep your skylight cleaner longer, leaving your skylight virtually spotless.

Energy efficient solutions

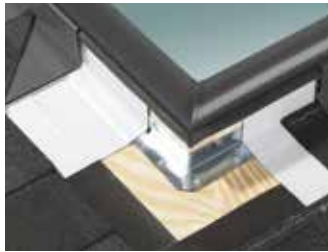
CleanEnergyPlus (10 code) – Enjoy the benefits of laminated glass and added energy efficiency.

In-reach installations

Tempered glass (05 code) is a durable glass for in-reach applications. Tempered is offered only on fixed skylights as the base glass.

For more information on glass go to page 30

Step 3: Pick your flashing



EDL – Shingles/shakes

Step flashing pieces interweave with roofing material for proper water drainage.



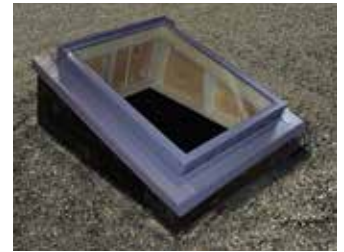
EDM – Metal roof flashing

Flashing pieces interlock with roofing material for a weather tight installation.



EDW – High profile flashing

Flashing kit for high profile roofing materials such as concrete tiles, Spanish tiles, cedar shakes, etc.



ECB – Low slope flashing

Used with site-built curb on low-slope roofs.

EKL/EKW – VELUX

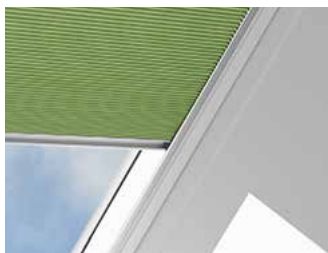
Combination System

Used to install multiple skylights in groups for dramatic installations.



Endless combinations! Call for design ideas.

Step 4: Pick your blind



Room Darkening Blind (Double pleated)

- Blocks most incoming light.
- Solar powered or manual operation.



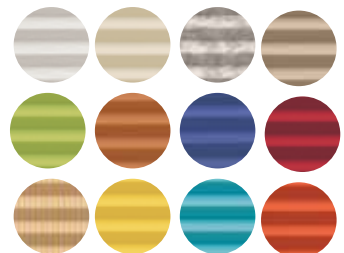
Light Filtering Blind (Single pleated)

- Softens and diffuses incoming light.
- Solar powered or manual operation.



Venetian Blind

- Control both direction and amount of incoming light.
- Manual operation only.



Colour options

Over 40 colours to choose from, your VELUX Blind will accent any space in your home.

*Not all blind styles are available for all skylight and roof window models. Call VELUX for details.
‡Lead time is an additional 3-5 days for factory installed blinds and must be requested when ordered.

Curb Mount Skylights

Step 1: Pick your application and model

Installation under 14° is not recommended where humidity or condensation is a concern.

Out-of-reach applications



VCS – Solar Powered Venting



Size	2222	2234	2246	3030	3046	3434	4622	4646
Inside curb/ rough opening (W" x H")	22 1/2 x 22 1/2	22 1/2 x 34 1/2	22 1/2 x 46 1/2	30 1/2 x 30 1/2	30 1/2 x 46 1/2	34 1/2 x 34 1/2	46 1/2 x 22 1/2	46 1/2 x 46 1/2
Outside curb (W" x H")	25 1/2 x 25 1/2	25 1/2 x 37 1/2	25 1/2 x 49 1/2	33 1/2 x 33 1/2	33 1/2 x 49 1/2	37 1/2 x 37 1/2	49 1/2 x 25 1/2	49 1/2 x 49 1/2
Maximum Skylight Clearance (W" x H")	26 5/8 x 26 5/8	26 5/8 x 38 5/8	26 5/8 x 50 5/8	34 5/8 x 34 5/8	34 5/8 x 50 5/8	38 5/8 x 38 5/8	50 5/8 x 26 5/8	50 5/8 x 50 5/8



VCE – Electric Venting



Size	2222	2234	2246	3030	3046	3434	4646
Inside curb/ rough opening (W" x H")	22 1/2 x 22 1/2	22 1/2 x 34 1/2	22 1/2 x 46 1/2	30 1/2 x 30 1/2	30 1/2 x 46 1/2	34 1/2 x 34 1/2	46 1/2 x 46 1/2
Outside curb (W" x H")	25 1/2 x 25 1/2	25 1/2 x 37 1/2	25 1/2 x 49 1/2	33 1/2 x 33 1/2	33 1/2 x 49 1/2	37 1/2 x 37 1/2	49 1/2 x 49 1/2
Maximum Skylight Clearance (W" x H")	26 5/8 x 26 5/8	26 5/8 x 38 5/8	26 5/8 x 50 5/8	34 5/8 x 34 5/8	34 5/8 x 50 5/8	38 5/8 x 38 5/8	50 5/8 x 50 5/8

In-reach applications



VCM – Manual Venting



Size	2222	2234	2246	3030	3046	3434	4646
Inside curb/ rough opening (W" x H")	22 1/2 x 22 1/2	22 1/2 x 34 1/2	22 1/2 x 46 1/2	30 1/2 x 30 1/2	30 1/2 x 46 1/2	34 1/2 x 34 1/2	46 1/2 x 46 1/2
Outside curb (W" x H")	25 1/2 x 25 1/2	25 1/2 x 37 1/2	25 1/2 x 49 1/2	33 1/2 x 33 1/2	33 1/2 x 49 1/2	37 1/2 x 37 1/2	49 1/2 x 49 1/2
Maximum Skylight Clearance (W" x H")	26 5/8 x 26 5/8	26 5/8 x 38 5/8	26 5/8 x 50 5/8	34 5/8 x 34 5/8	34 5/8 x 50 5/8	38 5/8 x 38 5/8	50 5/8 x 50 5/8

Fixed non-opening applications



FCM – Fixed Curb Mount*

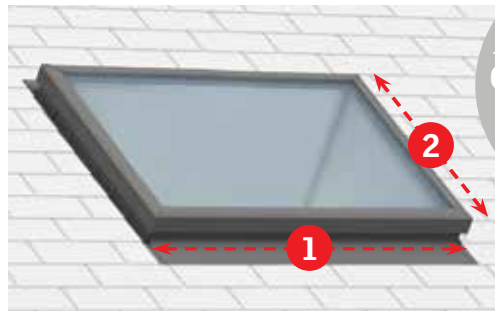
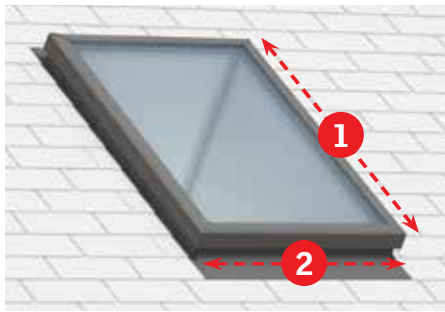


Size	1430	1446	2222	2230	2234	2246	2270	3030	3046	3434	3446	4646	3055	3072	4672
Inside curb/ rough opening (W" x H")	14 1/2 x 30 1/2	14 1/2 x 46 1/2	22 1/2 x 22 1/2	22 1/2 x 30 1/2	22 1/2 x 34 1/2	22 1/2 x 46 1/2	22 1/2 x 70 1/2	30 1/2 x 30 1/2	30 1/2 x 46 1/2	34 1/2 x 34 1/2	34 1/2 x 46 1/2	46 1/2 x 46 1/2	30 1/2 x 54 3/4	30 1/2 x 72 1/4	46 1/2 x 72 1/4
Outside curb (W" x H")	17 1/2 x 33 1/2	17 1/2 x 49 1/2	25 1/2 x 25 1/2	25 1/2 x 33 1/2	25 1/2 x 37 1/2	25 1/2 x 49 1/2	25 1/2 x 73 1/2	33 1/2 x 33 1/2	33 1/2 x 49 1/2	37 1/2 x 37 1/2	37 1/2 x 49 1/2	49 1/2 x 49 1/2	33 1/2 x 57 3/4	33 1/2 x 75 1/4	49 1/2 x 75 1/4
Maximum Skylight Clearance (W" x H")	18 5/8 x 34 5/8	18 5/8 x 50 5/8	26 5/8 x 26 5/8	26 5/8 x 34 5/8	26 5/8 x 38 5/8	26 5/8 x 50 5/8	26 5/8 x 74 5/8	34 5/8 x 34 5/8	34 5/8 x 50 5/8	38 5/8 x 38 5/8	38 5/8 x 50 5/8	50 5/8 x 50 5/8	34 5/8 x 59	34 5/8 x 76 1/2	50 5/8 x 76 1/2

*FCM can be turned sideways.



Custom FCM* – Fixed Curb Mount



Made to measure
Can be installed sideways for more size options

1. From 18¾" to a maximum of 76½"
2. From 18¾" to a maximum of 50¾"

Step 2: Pick your glass



Out-of-reach installations

CleanComfortPlus (04 code) and **CleanEnergyPlus (10 code)** is strongly recommended for out-of-reach applications.

All VELUX skylights with laminated glass come with Neat® coating to keep your skylight cleaner longer, leaving your skylight virtually spotless.

Energy efficient solutions

CleanEnergyPlus (10 code) - Enjoy the benefits of laminated glass and added energy efficiency.

Triple Pane Laminated (29 code) - Gives you two exterior tempered panes and an inner laminated pane. **Meets Vancouver building code.**

Triple Pane (30 code) - Gives you three layers of tempered glass perfect for the extreme Canadian climate.

In-reach installations

Tempered glass (05 code) is a durable glass for in-reach applications. Tempered is offered only on fixed skylights as the base glass.

For more information on glass go to page 30

Step 3: Pick your flashing



ECL – Shingles/shakes

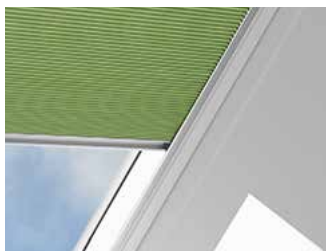
Step flashing pieces interweave with roofing material for proper water drainage. For use with shingles or shakes less than ¾" thick.



ECW – High profile flashing

Flashing kit for high profile roofing materials such as concrete tile, cedar shake, etc. For use with metal roofing, tiles or shakes more than ¾" thick.

Step 4: Pick your blind**



Room Darkening Blind (Double pleated)

- Blocks most incoming light.
- Solar powered or manual operation.



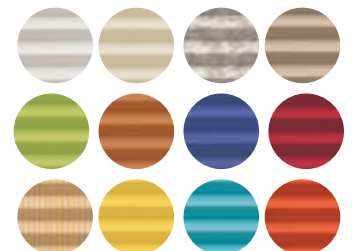
Light Filtering Blind (Single pleated)

- Softens and diffuses incoming light.
- Solar powered or manual operation.



Venetian Blind

- Manual operation only.
- Minimum pitch is 14°.



Colour options

Over 40 colours to choose from, your VELUX Blind will accent any space in your home.

*Custom sizes available to a maximum of 50¾" X 76½". Call VELUX for details.

**Blinds are not available for the FCM 1430, 1446, 3055, 3072, 4672 size.

Roof Windows

The **NEW** VELUX white painted roof window provides a touch of elegance for all living spaces. Now standard on all roof windows the white painted frame is factory painted for flawless finish and excellent durability. It is also treated with anti-fungal to ensure the longevity of the wood.

NEW Triple Pane Roof Window

- Easy to clean coating that repels dust and debris.
- Enhanced energy efficiency and anti-dew coating.
- Laminated safety glass prevents shattered glass from falling in case of breakage.



GGL Centre pivoting roof window



NEW
white painted
roof windows
also available in
TRIPLE PANE



- For in-reach installations such as attics and bonus rooms.
- The window swivels 180° in its frame for easy and safe cleaning.
- Ventilation flap opens for limited ventilation.
- Optional insect screen and blinds available.
- Available in varnished pine and polyurethane. Call for pricing.
- Step flashing and underlayment sold separately.
- **Now available in Triple Pane for enhanced energy efficiency.**

GPL Top hinged roof window



NEW
white painted
roof windows
also available in
TRIPLE PANE



- For in-reach installations such as attics and bonus rooms.
- Opens to a 45° angle to satisfy Egress requirements for emergency escape (check local building code).
- Ventilation flap opens for limited ventilation.
- Optional insect screen and blinds available.
- Available in varnished pine and polyurethane. Call for pricing.
- **Now available in Triple Pane for enhanced energy efficiency.**

Available sizes

Size code	CK06	FK06	MK04	NEW MK06	MK08	PK10	SK06	NEW UK04	UK08
Outside frame (W" x H")	21 ⁵ / ₈ x 46 ³ / ₈	26 x 46 ³ / ₈	30 ⁵ / ₈ x 38 ¹ / ₂	30 ³ / ₄ x 46 ³ / ₈	30 ⁵ / ₈ x 55	37 ¹ / ₈ x 63	44 ⁷ / ₈ x 46 ³ / ₈	52 ³ / ₄ x 38 ¹ / ₂	52 ³ / ₄ x 55 ¹ / ₁₆
Rough opening (W" x H")	22 ¹ / ₈ x 46 ⁷ / ₈	26 ¹ / ₂ x 46 ⁷ / ₈	31 ¹ / ₄ x 39	31 ¹ / ₄ x 46 ⁷ / ₈	31 ¹ / ₄ x 55 ¹ / ₂	37 ⁵ / ₈ x 63 ¹ / ₂	45 ³ / ₈ x 46 ⁷ / ₈	53 ¹ / ₄ x 39	53 ¹ / ₄ x 55 ¹ / ₂

*Varnished pine and polyurethane models available for roof windows. Call VELUX for more information.



GXL Roof access window



NEW
white painted
roof windows
also available in
TRIPLE PANE



15° - 85°
3:22-137:12

- Easy roof access for roof repairs, maintenance, emergency and Egress.
- Can be installed as left hinged or right hinged roof access and window.
- Locking device that keeps sash in open position and ventilation flap.
- Optional insect screen and blinds available.
- Available in varnished pine and polyurethane. Please call for pricing.
- Step flashing and underlayment sold separately.
- **Now available in Triple Pane for enhanced energy efficiency.**

Available size



FK06

Outside frame (W" x H")	26 x 46 ³ / ₈
Rough opening (W" x H")	26 ¹ / ₂ x 46 ⁷ / ₈



GDL Cabrio balcony roof window



35,25°-53°
8.5:12-15:12

- Dual-sash operation: Top opens for ventilation and bottom opens outward to create a balcony. Ventilation flap included.
- Top sash rotates inward for easy glass cleaning from inside.
- Optional insect screen and blinds.
- Varnished pine frame comes pre-painted white.
- Step flashing and underlayment sold separately.
- Available in Triple pane glass.

Available sizes



PK19



SK19

Outside frame (W" x H")	37 ¹ / ₈ x 99 ¹ / ₄	44 ⁷ / ₈ x 99 ¹ / ₄
Rough opening (W" x H")	37 ⁵ / ₈ x 99 ³ / ₄	45 ³ / ₈ x 99 ³ / ₄

Flat Roof Skylights

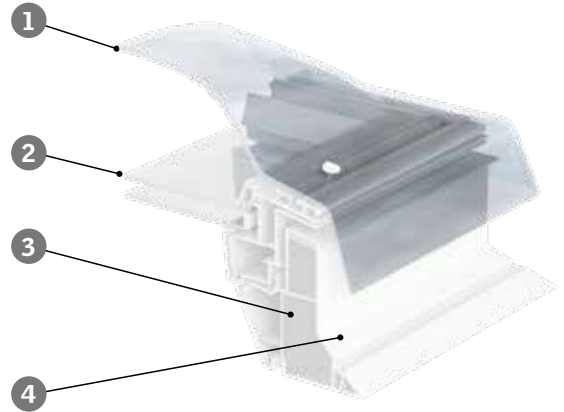
Innovative, energy efficient solutions for daylight through a flat roof

Opening up a flat roof with a skylight or Sun Tunnel can fill a forgotten space with light, transforming a room. VELUX offers a range of options for flat roofs – all designed to keep heat loss to a minimum, make the most of solar gain and let in natural daylight. Just choose the one that suits you best, then sit back and enjoy the benefits!



Benefits

- Highly energy efficient, innovative solution for bringing large amounts of sunlight through a flat roof.
- Double glazed window with protective polycarbonate cover.
- Polycarbonate cover provides excellent sound insulation from rain and hail.
- Maintenance-free PVC frame.



1. Polycarbonate cover
2. Double glazed glass unit
3. Polystyrene insulation
4. PVC profile

CFP Flat roof skylight



- Available as large as 5' x 5'.

CVP Flat roof manual venting skylight



- Manual venting flat roof skylight with control rod.
- Insect screen not available.
- Available as large as 4' x 4'.

CFP & CVP available sizes

Size code	6060	6090	8080	9090	90120	100100	100150	120120	150150
Rough opening (W x H) cm	60 x 60	60 x 90	80 x 80	90 x 90	90 x 120	100 x 100	100 x 150	120 x 120	150 x 150
Rough opening (W" x H")	23 5/8 x 23 5/8	23 5/8 x 35 7/16	31 1/2 x 31 1/2	35 7/16 x 35 7/16	35 7/16 x 47 1/4	39 3/8 x 39 3/8	39 3/8 x 59	47 1/4 x 47 1/4	59 x 59
Exterior frame (W" x H")	30 11/16 x 30 11/16	30 11/16 x 42 1/2	38 7/16 x 38 7/16	42 1/2 x 42 1/2	42 1/2 x 54 5/16	46 7/16 x 46 7/16	46 7/16 x 66 1/8	54 5/16 x 54 5/16	66 1/8 x 66 1/8

● All models ● CFP model only

*Blinds available in all sizes except CFP 150150



VELUX
Curb Mount
Skylights have been
tested to perform
on flat roofs.
See page 22 for
more information



CXP Flat roof exit



- Provides roof access to flat roofs.
- Sleek internal appearance with a 60° opening angle.
- Insect screen not available.
- Available as large as 4' x 4'.

CXP available sizes

Size code	90120	100100	120120
Rough opening (W x H) cm	90 x 120	100 x 100	120 x 120
Rough opening (W" x H")	35 7/16 x 47 1/4	39 3/8 x 39 3/8	47 1/4 x 47 1/4
Exterior frame (W" x H")	42 1/2 x 54 5/16	46 7/16 x 46 7/16	54 5/16 x 54 5/16

TCR Residential flat roof Sun Tunnel



- Effective lighting area: up to 325 square feet (14" model).
- Run length is calculated based on vertical drop and accounts for standard 1" overlap between components.
- Available in 14" and 22" diameter. See page 32 for more information.

Skylight Accessories

Installation



Instant light shaft

Ready-made skylight liner for easy and airtight completion on deck mount skylights. Save time and money on the installation. No drywall, spackling, sanding and painting needed.



1. Prefabricated light shaft assembly kit
2. Assemble moulding
3. Install mounting clips to skylight drywall groove
4. Measure and cut panels to proper depth and join to moulding
5. Align assembled light shaft to mounting clips and click to install



ZZZ 234 – Instant light shaft

Works on all "box" type light shafts (not flared).

- 16" standard depth (trim to actual depth on site).
- All other pieces are pre-cut to size for easy assembly.
- 4" minimum spacing required around all sides if multiple skylights are installed.

Models: C01, C04, C06, C08, C12, M02, M04, M06, M08, S01, S06



ZZZ 199 – FCM accessory tray**

Accessory tray required for blind installation on FCM skylights and can be adapted for most non-VELUX fixed curb mount skylights. Call VELUX for details.

Models: FCM

Manual blind operation



ZXT 200 – 3' - 6' telescopic rod†

A telescopic rod for operation of out-of-reach manual blinds. 3' extension available (ZCT 100).

Models: all skylight manual blinds

Home automation



KLF 100 – Home automation integration kit

Provides two advanced functions: it acts as a repeater that extends the RF range for large spaces as well as an interface unit which allows operation via external systems in your home.

Models: VSS, VSE, VCS, VCE

**Accessory trays are size specific and do not come with skylight. Included on factory installed or YAY blinds.
†Rod required for manual out-of-reach operation of blinds. Please contact VELUX for additional information.

Manual skylight operation



ZCT 300 – 6' - 10' telescopic rod^{††}

A telescopic rod to operate manual venting skylights with a smooth-turning operation. 3' extension available (ZCT 100).

Models: VS, VCM



ZCT 100 – 3' extension^{††}

Universal extension piece for telescopic rods works with the ZCT 300 and the ZXT 200.



ZZZ 203 – Adaptors

Angle adaptor allows an easier operation on a steeper pitch.

Models: VS, VCM



ZOZ 032 – 2' Manual rod

A rod to operate manual venting skylights with a smooth-turning operation. 3' extension available (ZCT 100).

Models: VS, VCM

Control options



KLR 200 – Intelligent touch screen remote powered by VELUX INTEGRA[‡]

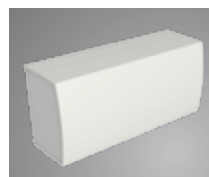
Operate your VELUX skylight from anywhere in your home with the Intelligent touch screen remote. Fitting nicely in the palm of your hand, the KLR 200 is easy to program and even easier to operate. Program all of your skylights and blinds in one remote. Set timers for your skylights and blinds to open and close automatically.

Models: VSS, VSE, VCS, VCE (Included)



KLI 110 – RF keypad*

Simple operation of blinds. Operates wirelessly and can be wall mounted. Included with solar blinds for manual or fixed skylights.



KLB 100 – Battery backup

Allows limited operation of electric skylights during a power failure. One needed per applicable skylight.

Models: VSE, VCE

[‡]Included with the purchase of any Solar Powered or Electric Venting Skylight models. Solar blinds can be programmed to the remote.

*Included in purchase of solar powered blind ^{††}Manual rod or crank handle required to operate manual skylight.

Light Control Solutions

The VELUX Blind Collection is a great way to control the amount of light in the room while adding additional energy efficiency. You can achieve your desired amount of daylight,

soften the afternoon sun or block out the light for privacy and comfort. VELUX also has blind options for skylights manufactured before 2010 - call VELUX for details.

Bedroom

Choose the right blinds for a good night's sleep or an afternoon curled up with a book.

Living room

Create a bright cozy family area with VELUX blinds.

Home office

A multi-purpose space benefits from versatile blinds that work day and night.

Bathroom

Easy to clean and a great way to add extra privacy in the bath.

Kitchen

VELUX blinds keep your kitchen comfortable all day long.

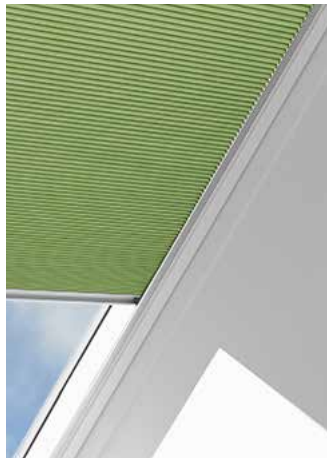


KLI 110- RF Keypad
All solar blinds come standard with a simple blind operation key pad.



KLR 200 - Intelligent touch screen remote
Upgrade to a KLR 200 and program your blinds and skylights to one remote. Set timers for your skylights and blinds to open and close to achieve desired or optimal performance.

Available Blind Options



Room Darkening Blind (Double pleated)

Recommended for room type:



- Blocks most incoming light.
- Energy efficient, highly insulated design.
- Provides absolute privacy.
- Solar powered or manual operation.



Light Filtering Blind (Single pleated)

Recommended for room type:



- Softens and diffuses incoming light.
- Provides privacy and light control.
- Reduces glare.
- Solar powered or manual operation.



Venetian Blind (Aluminium)

Recommended for room type:



- Control both direction and amount of incoming light.
- Maintain view of outdoors.
- Moisture resistant.
- Manual operation only.



Duo Blind (Roof windows only)

Recommended for room type:











































- Combination blackout and single pleated blind.
- Combines total blackout with light diffusing in any ratio at any level on the window.
- Available in white/beige.
- Manual operation only.

Visit
veluxblinds.ca
 to order
 your blind



Colour Options*

Choose the blind colour that suits your personal style and home decor. The current VELUX Blind Collection is available for skylights manufactured in 2010 and later. For customers who have skylights manufactured before 2010 please call VELUX for blind options.

	Standard blind colours†		Special order blind colours									
Room Darkening	 White 1045	 Beige 1155	 Golden beige 1049	 Green 1157	 Grey 1158	 Brown 1159	 Charcoal 1047	 Blue 1156	 Raspberry 1051	 Yellow 1160	 Orange 1161	 Cherise 1162
Light Filtering	 White 1016	 Classic sand 1259	 Snowy white 1255	 Classic white 1256	 Wavy white 1257	 Delightful cream 1258	 Misty brown 1260	 Lovely latte 1261	 Infinity grey 1262	 Metallic gold 1263	 Cappuccino 1264	 Metallic blue 1265
			 Luscious lime 1266	 Burned orange 1267	 Delightful blue 1268	 Classic red 1269	 Sunny stripes 1270	 Sunny yellow 1271	 Sunny blue 1272	 Sunny orange 1273		
Venetian	 White 7001	 7056	 7057	 7012	 7058	 7059	 7060	 7061				

*Not all blind styles are available for all skylight and roof window models. Call VELUX for details.
 †Lead time is an additional 3-5 days for factory installed blinds and must be requested when ordered.

Sun Tunnel™ Skylights

Benefits

- Ideal for projects where the distance between the roof and ceiling is too long for a traditional skylight.
- **Energy kit** is designed for the Canadian climate to increase energy efficiency.
- Accessories available to help customize the way light affects your room.

Available sizes

10"

14"

22"



Step 1: Determine light coverage to find your model and number of units required

Roof Exposure	Light Coverage*		
	< 150 sq. ft	150 - 200 sq. ft	200 - 325 sq. ft
All exposures	TMR 010 TMF 014	TMR 010/014 TMF 014	TMR 014
South exposures	TGR 010 TGF 014 TLR 014	TGR 010/014 TLR 014 TGF 014/022	TGR 014/022 TCR 022
Flat roof	TCR 014 TCR 022 (up to 400 sq. ft.)		

Small/square spaces

- If < 150 sq. ft 1 unit required.
- If 200 sq. ft + consider rigid or multiple units.

Narrow/rectangular spaces

- Consider multiple units.



Step 2: Choose your recommended model

Rigid Tunnel Models

Maximum light output and easy to install. Ideal for straight runs with some flexibility, up to 90°. Comes with 4' tunnel in box. Tunnel can run up to 20' for 10", 25' for 14" and 30' for 22" models.*



TMR

Pitched flashing
Highest light output, most versatile and commonly used model.



TGR

Low profile flashing
Lower exterior profile designed for south facing exposures.



TLR

Low profile flat glass
Creates a sleek appearance on the roof and is ideal for south facing exposures.



TCR

Flat roof flashing
Designed for flat roofs providing a balanced light output.

Flexible Tunnel Models

For attics with many obstructions. Comes with 8' of tunnel in the box. Tunnel runs up to 8' for 14" and 12' for 22" models.*



TMF

Pitched flashing
Flexible tunnel for attics with many obstructions.



TGF

Low profile flashing
Flexible tunnel for attics with many obstructions and south facing exposures.

*Light will vary depending on orientation and sun exposure



Step 3: Sun Tunnel extensions



ZTR – Rigid tunnel extensions

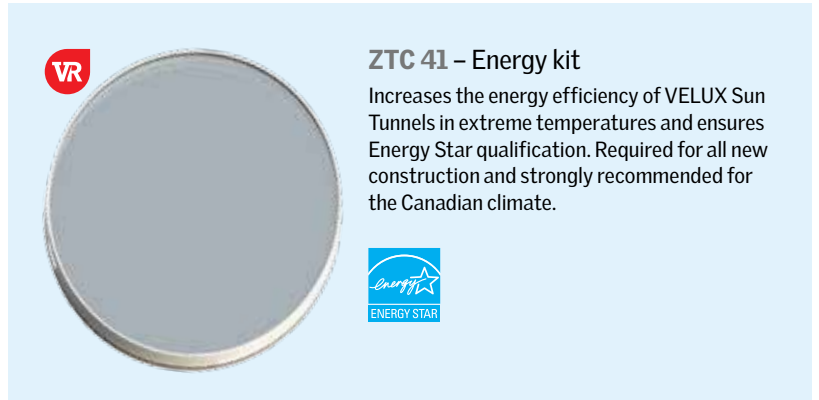
ZTR – Rigid tunnel extensions

For longer tunnel runs 2', 4' and 6' tunnel extension pieces are available, in 2' increments.

ZTF – Flexible tunnel replacement

12' flexible tunnel that replaces the standard 8' flexible tunnel. Available for the 22" model only.

Step 4: Added energy efficiency



Optional Accessories



ZTL – Electric night light kit
Turn your Sun Tunnel into a night time light source.



ZTK –Room darkening shade (manual)
Allows you to block the light emitted by the Sun Tunnel skylight.



ECW – Tile flashing for curb mount Sun Tunnels
Designed for tile and metal roofing materials. For TCR model only.



ZTC 02 – Prismatic diffuser plate
Ceiling level diffuser with uniform prisms to diffuse the light evenly.



ZTC 03 – Fresnel diffuser plate
Ceiling level diffuser with unique concentric honeycomb parabolic prisms to maximize light diffusion.



ZTB – Decorative diffuser
Ceiling level decorative diffusers for VELUX Sun Tunnel skylights that transforms daylight into a decorative style that complements any décor.

-  ZTB 3021
Brushed Nickel
-  ZTB 3022
Polished Brass
-  ZTB 3023
Oil Rubbed Bronze
-  ZTB 3020
White

Product Performance Values

Testing data : For more detailed product information and for data updates visit our website at velux.ca. (User is advised to verify critical values have not changed since publication.)

VELUX residential Skylights & Sun Tunnels are rated at 20° slope and labelled with NFRC-certified U-Value, SHGC, and VT ratings listed in the NFRC Certified product directory.

Deck Mount Skylights

Model	VSS/VSE/VS†			FS†	
Glass	04	10	04	05	10
Energy Star Zone(s)	1 2	1 2	1	1	1 2
U-Value* metric (imperial)	2.38 (0.42)	2.33 (0.41)	2.50 (0.44)	2.56 (0.45)	2.38 (0.42)
SHGC**	0.23	0.23	0.26	0.26	0.26
VT***	0.53	0.52	0.60	0.61	0.60
Class	SKG-PG65 (SKG-PG105)	SKG-PG80 (SKG-PG85)	SKG-PG70 (SKG-PG105)	SKG-PG45 (SKG-PG105)	SKG-PG65 (SKG-PG100)
Size Tested	S06 (M08)	S06 (M08)	S06 (M08)	S06 (M08)	S06 (M08)
Design Pressure (Pa)	+11252/-2394 (+12012/-3830)	+22983/-2873 (+28489/-3122)	+6224/-2633 (+10790/-3830)	+11990/-1676 (+11990/-3591)	+19631, -2394 (+30643/-3591)
Water Penetration Resistance Test Pressure (Pa)	720	720	720	720	720
Canadian Air Infiltration/Exfiltration	A3	A3	Fixed	Fixed	Fixed

Curb Mount Skylights

Model	VCS/VCE/VCM	VCS	FCM	FCM	FCM
Glass	04	10	04	05C	29/30
Energy Star Zone(s)	N/A	N/A	N/A	1	1 2
U-Value* metric (imperial)	2.99 (0.53)	2.88 (0.51)	2.73 (0.48)	2.56 (0.45)	2.16 (0.38)
SHGC**	0.24	0.24	0.27	0.28	0.25
VT***	0.55	0.54	0.63	0.64	0.57 (0.58)
Class	SKG-PG45	SKG-PG40 (SKG-PG65)	SKG-PG120 (SKG-PG100) {SKG-PG70}	CW-PG100	SKG-PG60
Size Tested	4646	4646 (2246)	4646 (2270){4672}	4646	4646
Design Pressure (Pa)	+7920/-1915	+17237/-1430 (+29750/-2390)	+8390/-4309 (+7190/-3591) {+3360/-2880}	+4788/-5027	+3600/-2160
Water Penetration Resistance Test Pressure (Pa)	720	720	720	720	720
Canadian Air Infiltration/Exfiltration	A3	A3	Fixed	Fixed	Fixed

Sun Tunnel Skylights with Energy Kit ZTC 41†

Model	TGF	TMF	TGR	TMR	TCR 14	TLR
Energy Star Zone(s)	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	N/A
U-Value* metric (imperial)	2.10* (0.37)	2.10* (0.37)	2.10* (0.37)	2.10* (0.37)	2.16* (0.38)	2.04 (0.36)
SHGC**	0.21	0.21	0.37	0.37	0.36	0.42
VT	0	0	0	0	0	0
Class***	TDDCC-PG125	TDDCC-PG125	TDDCC-PG125	TDDCC-PG125	TDDCC-PG165	TDDCC-PG150
Size Tested	559mm (022)	559mm (022)	559mm (022)	559mm (022)	356mm (014)	356mm (014)
Design Pressure (Pa)	+9476/-4549	+9476/-4549	+9476/-4549	+9476/-4549	+9576/-5985	+7182/-8140 G34
Water Penetration Resistance Test Pressure (Pa)	720	720	720	720	720	720
Canadian Air Infiltration/Exfiltration	Fixed	Fixed	Fixed	Fixed	A3	Fixed

*U-Value - W/m²K (BTU/h ft² F) ** SHGC - Solar Heat Gain Coefficient *** Visible Transmittance † Tested with Canadian Energy Kit installed, ZTC 41.

Limited Warranty Summary

This Warranty applies to products manufactured as of January 1st, 2010. Please contact VELUX for warranty information for product manufactured prior to 2010.

VELUX Skylights & Roof Windows

20 YEARS:

Parts on seal failure (moisture between glass panes).

10 YEARS:

Parts for defective skylights, roof windows and flashings.

10 YEARS:

Laminated glass with Neat® coating and triple pane products on cracking or breakage due to hail.

VELUX Sun Tunnel Skylights

10 YEARS:

Parts (corrosion and deterioration).

VELUX Electrical Systems & Sunscreening Accessories

5 YEARS:

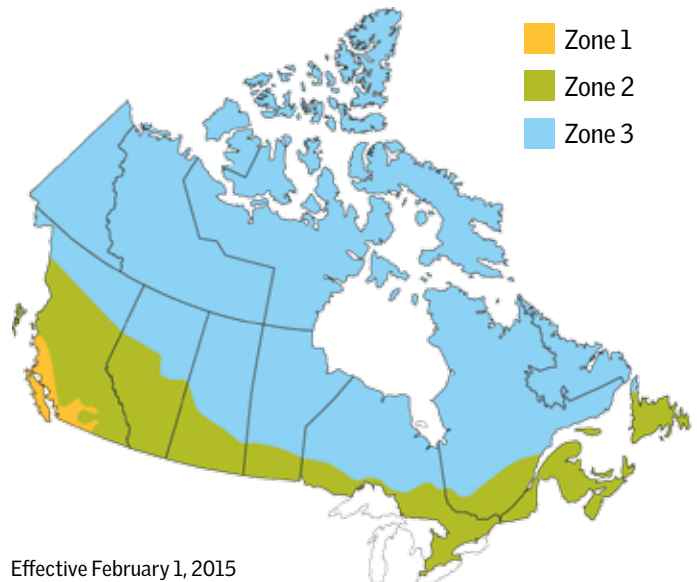
Parts for electrical systems and sunscreening accessories.

VELUX Commercial Warranty

See velux.ca for full warranty details

Limited labour warranty included. See velux.ca or call for full warranty details.

Energy Star zones for skylights



Energy Star ratings for Canada is divided into three climate zones (1, 2, and 3). The climate zones are based on an annual daily average temperature.

VELUX has the best selection of Energy Star certified skylights and Sun Tunnels. Not only do our products meet Energy Star zones to save you money but they are all rigorously tested to perform in the harshest and most extreme climates.

For more information on Energy Star visit www.nrcan.gc.ca/energy

Notice

All glass may be subject to unexpected and spontaneous breakage in rare circumstances due to imperfections in the glass that are undetectable during the manufacturing and inspection process by the manufacturer of the glass and VELUX. VELUX offers the choice of laminated or tempered glass skylights. Laminated glass is a combination of two or more glass sheets with one or more interlayers of plastic (PVB) or resin. In case of breakage, the interlayer is designed to hold the fragments together. Tempered glass does not contain an interlayer to hold the fragments together. Instead, tempered glass is designed to break into small, pebble-like pieces. When tempered glass breaks, pieces of glass come loose and may strike an individual. Consult local regulations and/or building material consultants to determine which type of glass is right for you or if laminated glass is required in your application.

Certifications

VELUX Skylights and Sun Tunnel Skylights, including VSS, VSE, VS, FS, VCS, VCE, VCM, FCM, TMR, TGR, TCR, TMF and TGF have been tested to the following standards and the results have been third party certified.

- **AAMA/WDMA/CSA 101/I.S.2/A440-08** NAFS – North American Fenestration Standard/Specification for Windows, Doors, and Skylights
- **A440S1-09** Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS
- **NFRC 100** Procedure for determining fenestration product U-factors.



WDMA
Hallmark Certified

VELUX®

The No Leak Skylight™

Bringing light to life™



Not a member of the **VELUX Installers Program**?
Register today at vipmembers.ca to be informed
of training seminars in your area.

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