



VELUX®

The No Leak Skylight™

2019 Residential Skylights Catalog

Residential Skylights and Sun Tunnel® Skylights


**SMART
HOME**
2019 PROUD SPONSOR

Table of Contents

INSPIRATION

- 2 The No Leak Skylight
- 4 The Architectural Series
- 6 Fifth Wall
- 8 Flat Roof Skylights
- 10 Room-Based Inspiration
- 38 VELUX ACTIVE with NETATMO
- 39 Find an Installer
- 40 The Indoor Generation

INFORMATION

- 42 How It's Made
- 43 Tax Savings
- 44 Flat vs. Vaulted Ceiling
- 45 Roof Pitch
- 46 Glass
- 47 Flat Roof Skylights
- 48 Go Solar

PRODUCTS

- 50 Architectural Skylights
- 56 Unit Skylights
- 74 Flat Roof Skylights
- 80 Skylight Accessories
- 88 Roof Windows
- 94 Sun Tunnel® Skylights
- 98 Sun Tunnel® Skylights Accessories

TECHNICAL INFORMATION

- 102 No Leak Warranty
- 103 Deck and Curb Flashing
- 104 Energy Star/Code Compliance
- 105 Size Charts
- 108 Testing Data

Bringing light to life has been our passion for over 75 years.

In 1942, in the Danish city of Copenhagen, a young engineer came up with an idea to transform dark, empty attics into bright living spaces. Despite a shortage of materials during World War II, his vision was "to make a skylight—a roof window—that is just as good as the best vertical window." He ended up developing and handcrafting the first ever roof window as an effective way to bring more daylight and fresh air into people's homes.

Today, we are still using our founder's same method of making skylights. Each piece of lumber is inspected by hand to check quality. The glass in our skylights is continuously tested to withstand powerful rain, hail, and wind to keep your family safe inside. It's all how we ensure each skylight we produce delivers unmatched quality, beautiful results, and a brighter home for you.

VELUX America LLC
450 Old Brickyard Road
PO Box 5001
Greenwood, SC 29648-5001

Phone: 1-800-888-3589
Fax: 1-864-943-2631
veluxusa.com | whyskylights.com



Why Skylights?



Daylight

Homes full of light are homes full of life. At VELUX, we believe daylight is powerful. It redesigns the look and feel of our homes every hour of the day. It balances our circadian rhythms, improves our general health and well-being, decreases our dependency on electricity, and gives functionality back to our space.



Fresh Air

Open your home to crisper, cleaner air with VELUX. All of our "Fresh Air" skylights are designed to release stale, trapped air from your home while bathing it in rich, natural light. We find it's the best way to reduce your dependency on central air, while continuously energizing your home with fresh air and natural light.



A Must-Have for Any Home

Skylights can be installed further than vertical windows into the heart of your home, offering a way to bring more natural light into more spaces than you'd ever thought possible. What's more, a venting skylight in the core of your home allows you to replenish the air throughout your entire house, improving your family's health on a daily basis.

We often ask, "Why skylights?" But with endless reasons to install a skylight, the question becomes more, "Why not skylights?"



The No Leak Promise

Our biggest promise that the skylights you add to your home will not leak.

VELUX's three patented layers of water protection work seamlessly to ensure no rain will leak into your home through your skylight.

*Read more about our
No Leak Promise on page 102.*

The Architectural Series

When it comes to skylights, it's time to start thinking outside the square.

The award-winning Architectural Series offers an extensive line of fully customizable skylights, available in a variety of shapes, finishes, and glazings to create a completely unique look.

Learn more about the Architectural Series on page 50.





FIFTH WALL Shift Your Outlook

They say the quietest people have the loudest minds.

The same can be said for the most unnoticed yet impactful wall in every room – the ceiling. It's more than a roof over your head and more than a surface to be painted white and forgotten. As an unexpected design space with a direct connection to the great wide open, it's your Fifth Wall.

Flat Roof Skylights

The innovative and energy-efficient solution for flat roofs.

Many living spaces in flat roof homes get very little natural light, but with a VELUX Flat Roof Skylight, you can easily transform virtually any space with daylight.

Learn more about Flat Roof Skylights on page 74.





Cooking With Daylight & Fresh Air

Some of our best memories are made in the kitchen: learning old family recipes, making messes, and sharing smiles across the table. You depend on your kitchen to not only have all the appliances, cabinets, and groceries needed to prepare and enjoy meals but to also be filled with life and light.

When we start looking at upgrades our kitchens may need, we tend to look around — around at all the outdated appliances, the counter tops that don't match, and the dwindling cabinet space. But rarely do we ever look up! Enhancing your cooking area with natural light is one of the best ways to get the most out of the sights, smells, and, yes, even tastes you create in your kitchen.

Get this look



VELUX Solar Powered
"Fresh Air" Skylight
VSS



VELUX ACTIVE with NETATMO
Indoor Climate Control Kit
KIX 300 US



Blackout Flat Blinds
Grey 0705







Natural Light For A Better Night's Sleep

As your solace at the end of a long day, your bedroom is a room to recharge your body and mind. It's also often the most secluded room of a home, where we shut off the outside world as we seek sleep. But did you know filling your bedroom with daylight can help you sleep even better?

The sun regulates our circadian rhythms, helping our bodies know when it's time to wake up naturally and drift off to sleep at night. When you open your bedroom up to the sky, you welcome in brilliant, natural light during the day and a starry expanse at night to help give you more restful nights' sleep and more productive days.

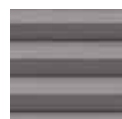
Get this look



VELUX
Fixed Skylight
FS



Remote Control
for Blinds
KLI 312



Room-Darkening,
Double-Pleated Blinds
Grey CS43







Living In Natural Light

Your living room sees a lot of activity: it's where loved ones gather during the holidays, where you host family game night, where you curl up to watch your favorite shows. It's the room you live in so it should be bright, open, and comfortable.

As the core of your home, your living room deserves to be awash with daylight and fresh air. We may be biased, but nothing invigorates a space quite like fresh air, and nothing illuminates it quite like daylight. Natural light and fresh air are powerful: changing color schemes, making rooms feel larger, lowering our dependency on electricity. And they make us feel good too! Isn't it time you lived a little more naturally?



Get this look



VELUX Electric
"Fresh Air" Skylight
VSE



VELUX ACTIVE with NETATMO
Indoor Climate Control Kit
KIX 300 US



Light-Filtering,
Single-Pleated Blinds
Shiny Cappuccino FS33





Bringing The Outside Into Your Bathroom

Unlike other rooms, your bathroom is a private space, one that is more for function than a design opportunity. After all, it's where you can take care of your needs as well as relax and be alone. But, the days of function-only bathrooms are behind us; it's time to create the luxurious, spa-like room you deserve!

Before you start picking out new paint colors, furniture, or knocking down walls, maybe all your bathroom needs is a dip into more natural light. With daylight and fresh air, you can easily turn your bathroom into your own personal oasis. So, are you ready for a change?



Get this look



VELUX Solar Powered
"Fresh Air" Skylight
VSS



VELUX ACTIVE with NETATMO
Indoor Climate Control Kit
KIX 300 US



Light-Filtering,
Single-Pleated Blinds
White FS00





The Bonus Of Your Spare Room

Bonus rooms are notorious for being the catch-all room, the oddly shaped space, the room that may have a purpose, but no real design focus. So, before going to work redesigning your bonus room, look up! You have an untapped design space right above you to help transform your bonus room into a room worth showing off.

The best way to redesign your space into the perfect multi-functional room is with rich, natural light. Natural light and fresh air can take a dimly lit bonus room and turn it into a space the whole family will enjoy.

Get this look



VELUX
Fixed Skylight
FS



Remote Control
for Blinds
KLI 312



Light-Filtering,
Single-Pleated Blinds
Classic Sand FS01







Daylight In Every Corner Of Your Home

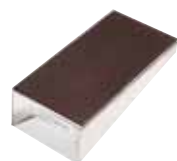
There are areas in every house that are just a bit harder to illuminate than others, especially with natural lighting. This can make small spaces, like entryways or hallways, dark and unwelcoming. When traditional windows just won't fit, it can be especially hard to bring natural light into the smallest interiors of your home.

But don't let that stop you from trying! With VELUX's innovative skylights, roof windows, and sun tunnels, you can add enough daylight to turn every corner of your home into something extraordinary. Remember: where a window won't fit, a skylight will!

Get this look



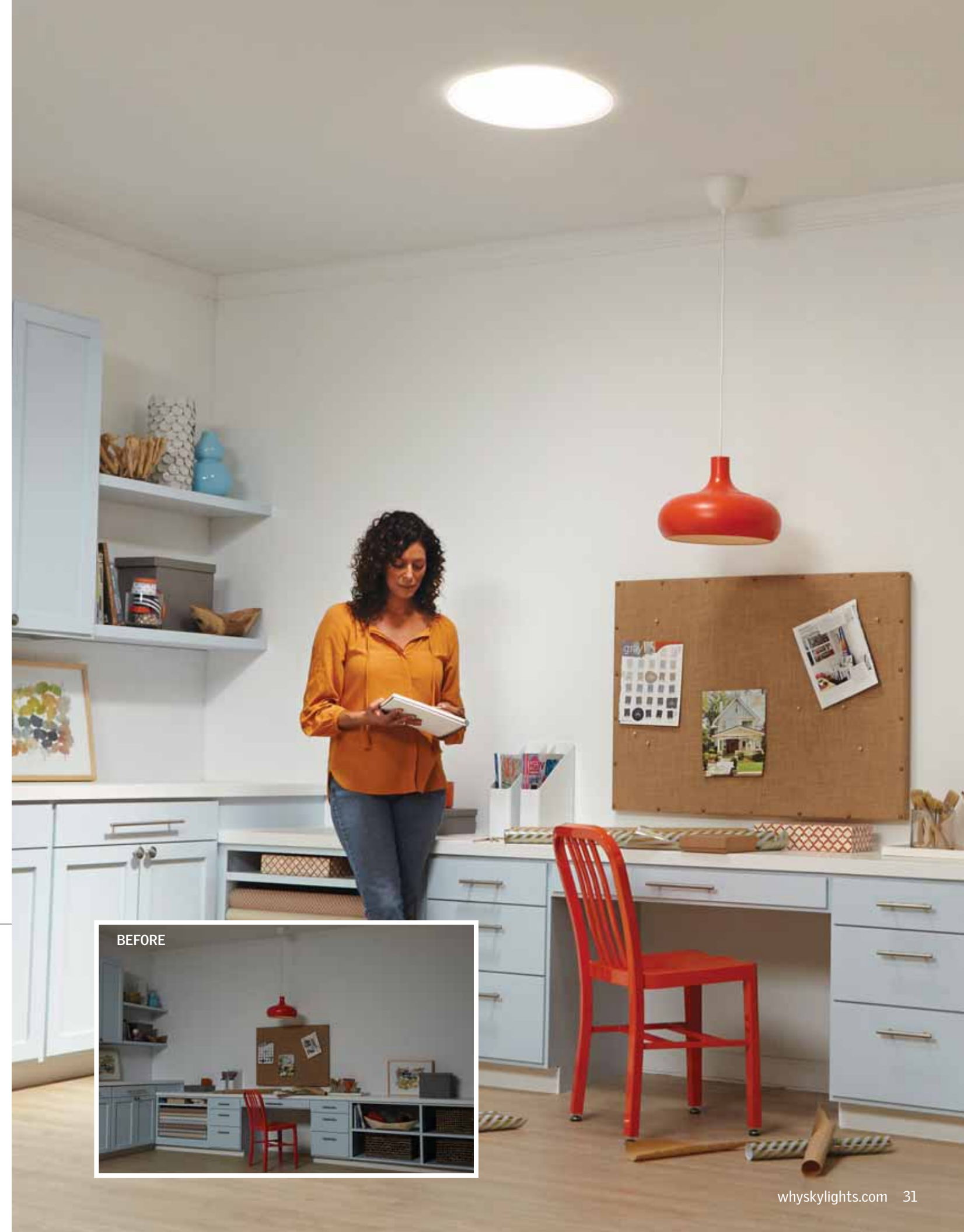
VELUX
Sun Tunnel® Skylight
TMR



Solar Night Light
ZTZ 213



Micro Fresnel
Decorative Diffuser
ZTB 4004US







A Room Filled With Daylight

From entertaining spaces to cooking stations to areas designed for lounging, patios can add value and comfort to your home. After all, they're the best of both worlds: all the amenities of being indoors with the atmosphere of the great outdoors. All it's missing is a view of the sky!

When you walk out onto your porch, look up! Your next big design space is right above you. In a way, your patio is the skylight of rooms, so what better way is there to fill it with daylight?

Get this look



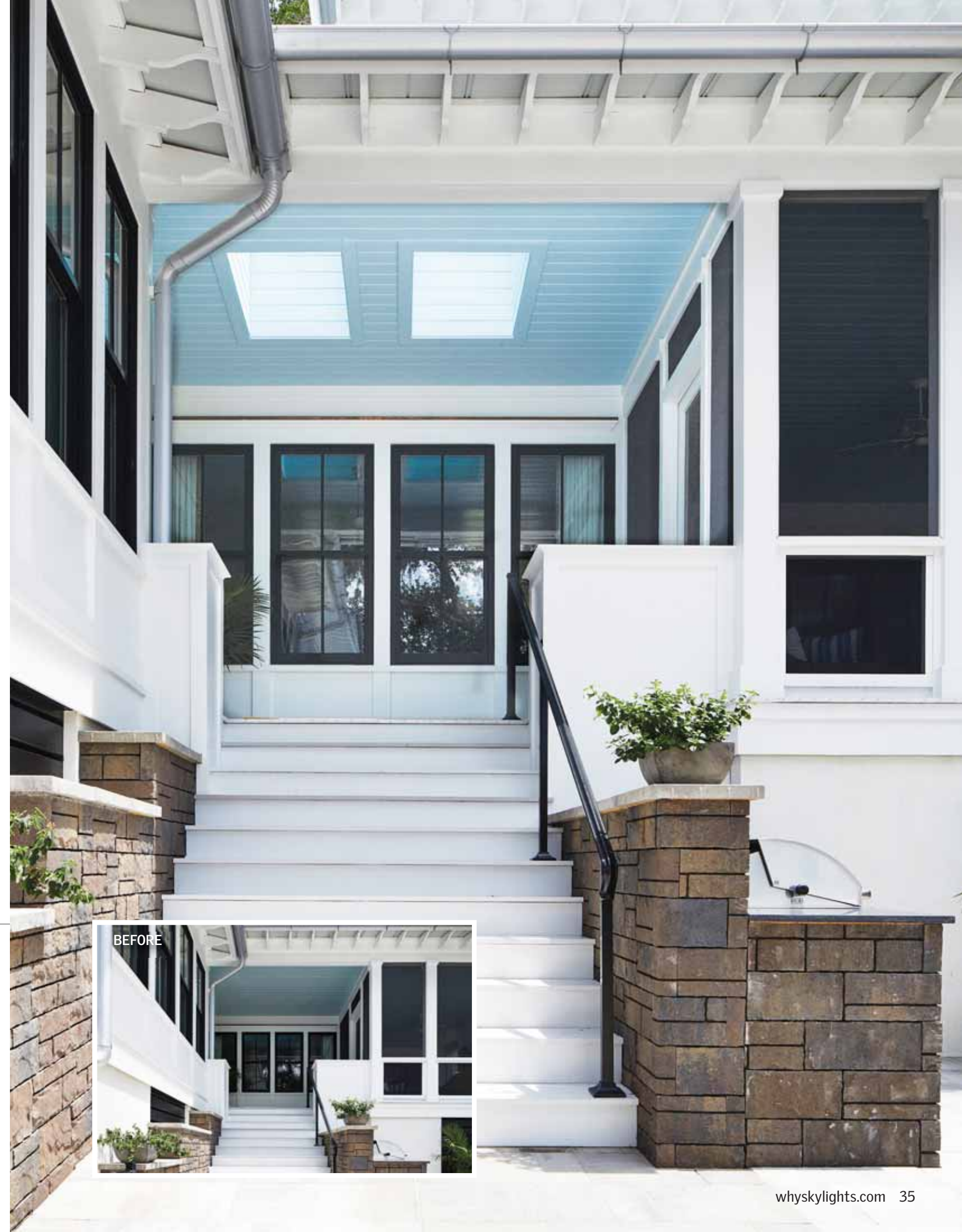
VELUX Manual
"Fresh Air" Skylight
VS



Telescopic Rod
6'-10'
ZCT 300



Impact
Glass
XX06







VELUX ACTIVE

Smart sensor-based operation
of your VELUX skylights,
and blinds.

with
NETATMO

A skylight that thinks for itself.

VELUX ACTIVE with NETATMO is the easiest way to create a healthier indoor environment in your home. All day, VELUX ACTIVE monitors your home's temperature, humidity, and CO₂ levels and compares them to the weather outside. It works by learning what you like then automatically adjusts your skylights and blinds to match your comfort level. It does the thinking for you. That's the best part.

Learn more on page 84.



When Why? Becomes How?

Find an Installer:

Find independent installers that are certified by VELUX around the country to help bring daylight to your home. A Skylight Specialist near you will offer advice on the best skylight sizes and placement for your new addition.

Visit: veluxusa.com/installers

Find a Dealer:

For a do-it-yourself project, an authorized VELUX dealer can provide you with all the products you need to get the job done. We offer plenty of installation instructions and videos to help you along the way.

Visit: veluxusa.com/dealers



SKYLIGHT SPECIALIST



SKYLIGHT SPECIALIST





Our physical space affects us more than we think. The lights and sounds that surround us play a key role in how we feel, whether we realize it or not. As an Indoor Generation - one that spends 90% of our time indoors, with 50% of that time spent in our own home - the quality of our indoor air matters.

And it should matter a lot.

The solution to an unhealthy indoor environment? It's as simple as looking up! A fresh air skylight or roof window is ready to reduce indoor allergens, freshen your home, and help you live a healthier life. So, why not skylights?

-  **40%** Living in a humid, moldy environment increases the risk of asthma and other respiratory problems by 40 percent.
-  Homes should exchange indoor air 3 times throughout the day to reduce allergens and improve the indoor climate.
-  Natural light can help sufferers of Seasonal Affective Disorder by balancing their circadian rhythms and boosting vitamin D.
-  Fresh air boosts the immune system, helps cleanse the lungs, and improves overall heart and brain health.
-  Children's learning abilities can be improved by up to 15 percent with regular exposure to daylight.





Sustainable Living Through Skylights

As the world leader in skylights, VELUX has put our most abundant natural resource to excellent use: the Sun. And we're able to do this by developing, manufacturing, and marketing environmentally friendly products.

High quality, energy-efficient skylights are an important part of building today's green-friendly homes. That's why at VELUX, it is our top priority to use the most modern technologies, so our products are as energy-efficient as possible. For example, to minimize the heat gain associated with UV penetration through a skylight, we've incorporated argon gas between the insulated panes of all our glass products and use Low-E coatings. This makes our glass among the most energy-efficient in the industry. And that's just the start!

Sustainable living is the way of the future, and VELUX is proud to say we've been ahead of this curve and intend to stay there. With more than 90% of our products ENERGY STAR qualified in all US climate zones, you can rest easy knowing your VELUX skylight is as energy-efficient as it is luminous.

Sensitivity in Manufacturing

At VELUX, we aim to be a worldwide steward of the environment. We achieve this by ensuring all areas of our process, including product design, raw materials, production methods, and the use of technologically advanced equipment, meet our highest environmental review standards. And to accomplish our goals of sustainable manufacturing practices, we are continuously working to improve our environmental health and safety.

In all areas of our manufacturing process, VELUX is nearly emissions-free and we make every effort to ensure materials used are as harmless as possible. All paints and finishes are water-based for safer disposal and to reduce volatile organic compounds released into the environment. Additionally, our manufacturing activities involve procuring and processing natural resources for our products.

We also aim to reduce the carbon footprint of our production activities by improving energy efficiency and by increasing the use of renewables. We take a holistic approach to product sustainability, including aspects of carbon footprint, energy balance, sourcing, recyclability, and chemical emissions. And, we work to continuously improve material efficiency and have a long-term vision of zero waste at our production sites.

We believe we have a direct obligation to our environment. Through the innovations we've made, we've been able to achieve and surpass our sustainable manufacturing goals! But we're not stopping there: while we uphold our tradition of quality and craftsmanship, we will also continue to assess and develop our environmental efforts as best we can at every turn.

Get Credit for Installing Your Skylight

Did you know that adding certain skylights to your home can earn you a tax credit? It's just one more bonus that comes with adding more daylight and fresh air!

Through the combined effects of the Emergency Stabilization Act and the American Recovery and Reinvestment Act, you're eligible for a tax credit of 30% when you purchase and install qualifying products in renewable technologies, like solar, wind, and geothermal energies.

Under these laws, VELUX Solar Powered "Fresh Air" Skylights, VELUX Blinds, and VELUX Sun Tunnel" Solar Night Lights qualify as Solar Electric Property.

Eligible for
30%*
Federal Tax Credit
off product and
installation

In other words, if you purchase any of these products, you become eligible to receive a 30% federal tax credit.

And, to clarify, that's a 30% credit based on the cost of both the product and entire installation! In other words, if you purchase a VELUX Sun Tunnel" and include the Solar Night Light, the cost of the whole purchase is considered when calculating your credit amount. The same goes for VELUX Solar-Powered Blinds: if you purchase a fixed skylight and include the solar-powered blinds, your skylight also becomes eligible for a 30% federal credit.

*For more information visit: veluxusa.com/taxcredit



How to Apply

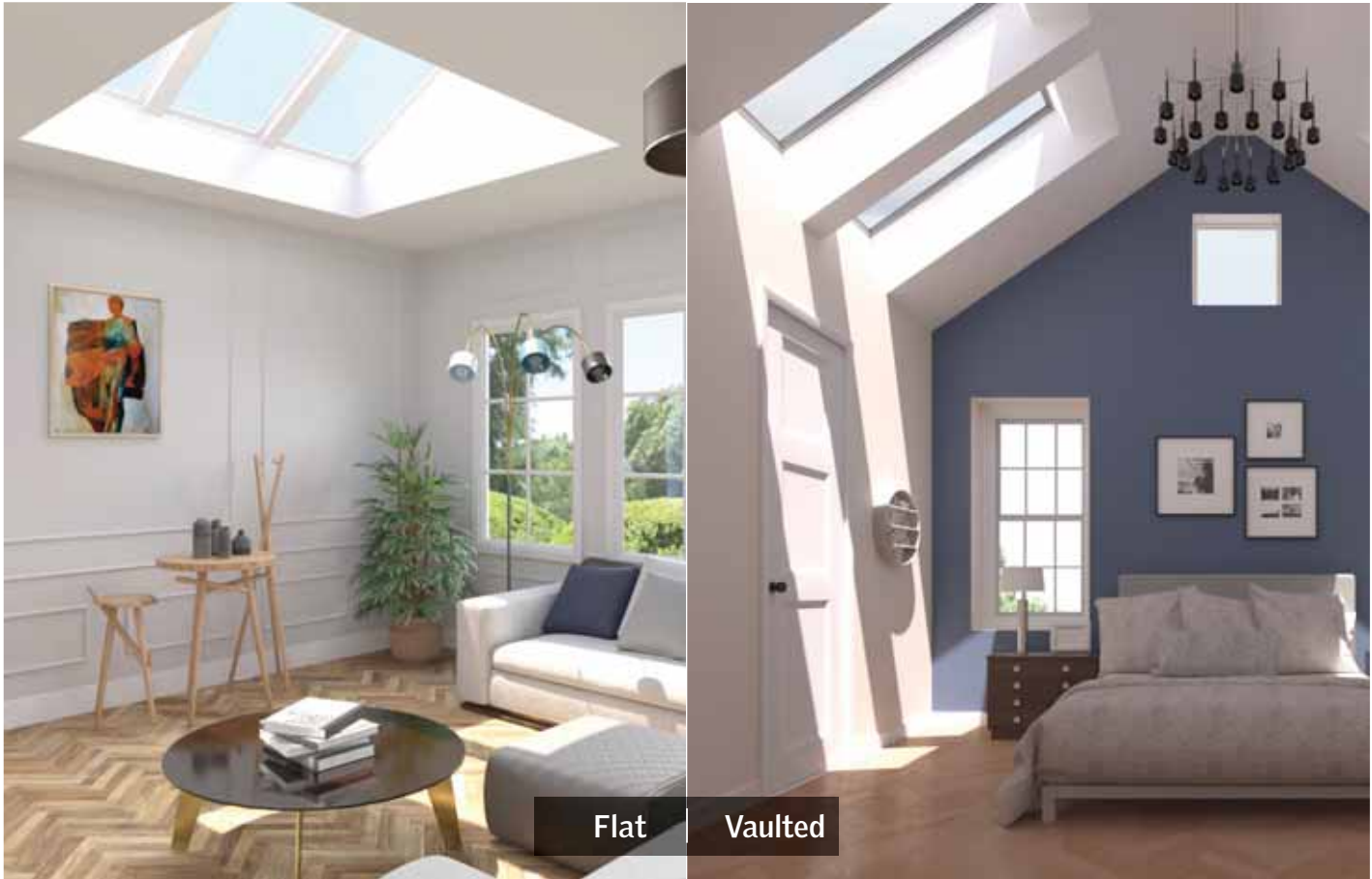
To receive your federal tax credit, you'll need to keep your receipts for the total price paid for your qualifying VELUX products and attach them to a completed 30% Federal Tax Credit – Manufacturers Certification Statement. Keep this for your records.

At tax time, fill out IRS Form 5695. Then, enter the tax credit from Form 5695 onto your Form 1040. You're not required to submit Form 5695 with your 1040 Form, so it's best to keep it for your records.

You can find out more about this tax credit by visiting our website, www.veluxusa.com. As in all tax matters, consult your tax professional if you have any further questions regarding how to apply for and receive the tax credit.

In all areas of our manufacturing process, VELUX is nearly emissions-free and we make every effort to ensure materials used are as harmless as possible.

A Skylight for Every Type of Ceiling



A common misconception regarding skylights is that they can only be installed in homes with vaulted ceilings.

But regardless of roof or ceiling type, you can still have the skylight of your dreams!

During your consultation with a VELUX installer, they'll come by your home to assess the room where you want your skylights. From there, they can tell you how many skylights and what size would be best, along with which installation style is most efficient. When it's time to install, there are two phases to the project: rooftop and interior. And depending on your situation, the installation will take between 1-3 days. Regardless of your ceiling type, the first step is to cut a hole in your roof and fasten the skylight with our three layers of protection. Once inside, your installer will then work to finish up bringing daylight in through your ceiling.



If your ceiling is flat, your installation will require a bit more drywall work than if your ceilings are vaulted. With a flat ceiling, your installer uses drywall to build a shaft from the skylight to direct daylight into the room below. This light shaft can be used as a design element to enhance the overall layout of your room. And don't worry, installers will make every effort to protect your home's interior from dust and other debris during construction. Once the light shaft is built, your installer will paint it to match the surrounding ceiling area. And voilà! You're well on your way to more daylight and fresh air in any room of your home, no matter what type of ceiling you have.








What is a Roof Pitch?

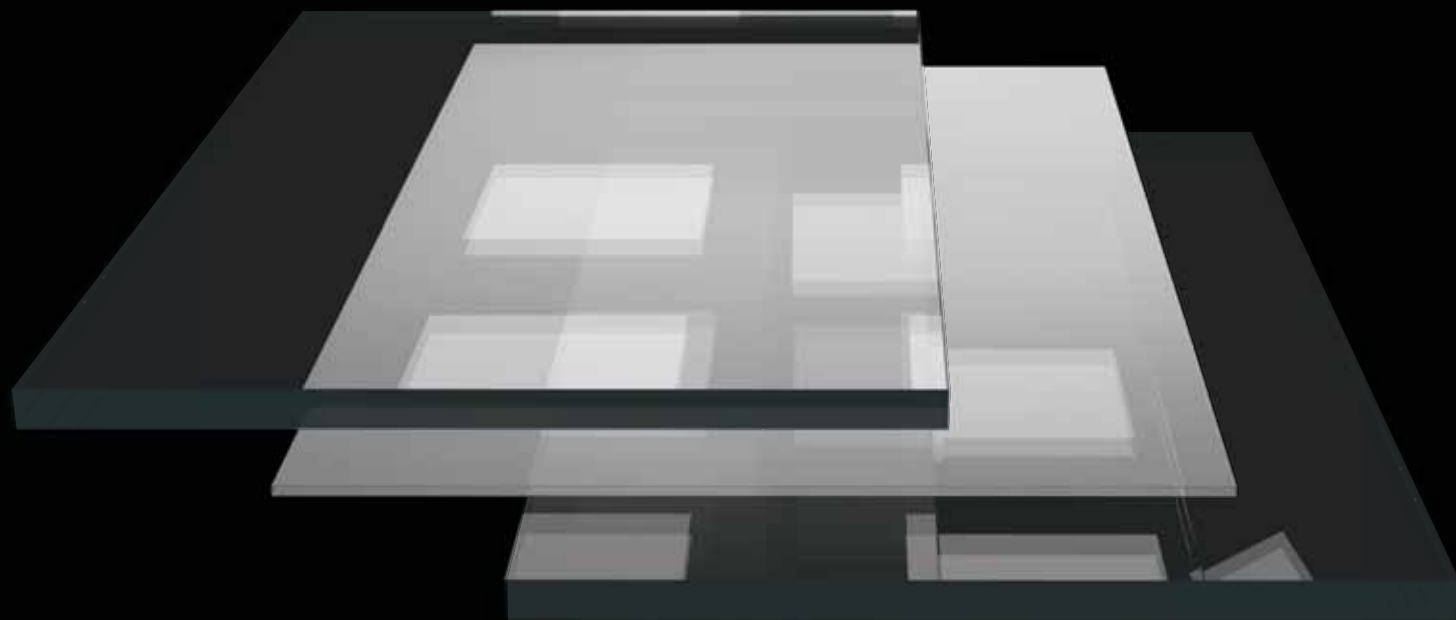


In order to determine the best skylight and installation options for you, you or your VELUX installer will need to determine your roof's pitch. But just what is a roof pitch?

The roof pitch is the angle of your roof, and it's calculated by the number of inches it rises vertically for every 12" it extends horizontally. This angle is measured by placing a pitch-gauge directly on the roof and taking an accurate reading. This calculation is important because each of VELUX's skylights and flashing kits are engineered with specific pitch requirements that match your roof's slope in order to effectively drain water off of the skylight. It's just one more way to help ensure your skylight won't leak!

Check out the table below to learn more about which skylights and roof windows are available for various roof pitches.

 0° - 60° 0:12 - 20:12	 14° - 60° 3:12 - 20:12	 14° - 85° 3:12 - 137:12	 15° - 55° 3:12 - 17:12	 15° - 85° 3:12 - 17:12	 15° - 90° 3:12 - 90°	 35° - 53° 8.4:12 - 15:12
VCS VCE VCM FCM TCR	QPF TLR TMR TGR TMF TGF	VSS VSE VS FS EVMS EV EF	GPU	GXU	GGU	Cabrio



The Glass in Your Skylight

It's no secret how important glass is to a skylight. In fact, without the right kind of glass created and installed in just the right way, the skylight wouldn't work at all!

While all types of VELUX glass are created equally in terms of quality and durability, they're also created differently to ensure your skylight withstands weather-related obstacles specific to where you live. For instance, skylights installed in Florida require hurricane-rated glass to protect against high winds and rain. Whereas those installing skylights in northern states may consider their typical amount of annual snowfall and opt for glass built to withstand heavier snow loads instead.

When you're ready to install skylights, an independent installer certified by VELUX will be able to help make sure you have just the right glass for your home.

Clean, Quiet & Safe Glass

Standard on all VELUX Solar Powered and Electric "Fresh Air" Skylights is our very own Clean, Quiet & Safe Glass. And the name really says it all: it's cleaner, quieter, and safer than any skylight glass on the market today.

Clean, Quiet & Safe Glass is made with silicon dioxide, making it much smoother than ordinary glass so water disperses evenly to evaporate quickly and reduce water spotting. It reduces up to 25% more of unwanted outside noise than standard double pane glass and up to 50% more than plastic skylights. And since Clean, Quiet & Safe Glass is a laminated glass, it's safe and compliant with all building codes for out-of-reach applications.

Standard on all FS/VS/VSS/VCS/EV/EF/EVMS models.

Introducing VELUX Flat Roof Skylights

It's a common misconception that skylights and flat roofs don't mix, but VELUX is here to disprove that with our newly expanded flat roof products. With a VELUX Flat Roof Skylight designed to meet the growing demand for skylights in homes with flat or low-pitch roofs, you can transform and improve virtually any space with daylight.

These new Flat Roof Skylights are fitted in a PVC curb and topped with one of two covers: CurveTech glass or polycarbonate dome. Designed with flat roofs in mind, CurveTech glass is a curved, edge-to-edge cover that allows rainwater to easily disperse off the glass. The polycarbonate dome is also built to whisk rainwater off the skylight while featuring a clean interior appearance.

Fixed Flat Roof Skylights

Featuring CurveTech glass or a polycarbonate dome, Fixed Flat Roof Skylights offer a way for those with flat roofs to open their homes up to daylight and sky views. A highly energy efficient design, its refined, modern appearance complements mid-century modern architectural styles as well as modular homes with a modern aesthetic.

Flat Roof Exit Skylights

The innovative Flat Roof Exit Skylight is designed to provide access to your roof, as well as daylight and fresh air to your home below. The double-glazed unit has a laminated inner pane for added safety while its polycarbonate dome protects the space below from rain and snow.

Learn more about VELUX's new Flat Roof Skylights on page 74.

Glass Options

Impact Glass (xx06)

Our toughest glass, resistant to penetration from wind-borne debris.

White Laminated Glass (xx08)

White coating diffuses 100% of light flowing to the space below.

Snowload Glass (xx10)

Reinforced glass to withstand added weight from accumulated snow.

Tempered Glass (xx05)

Built with an additional degree of hardness for added safety.
FCM/VCM/QPF models only



Eligible for
30%*
Federal Tax Credit
off product and
install cost when
you Go Solar

2009-2019	30% Federal Tax Credit
2020	26% Federal Tax Credit
2021	22% Federal Tax Credit

For more information visit:
veluxusa.com/go-solar

Go Solar, Save Big!



When you Go Solar with VELUX, you can reduce your energy consumption and actively fine-tune the climate inside your home as the seasons change. The products we design at VELUX can help you reduce your dependency on electricity and, ultimately, lower your carbon footprint.

We help you do this by providing you with the opportunity to exchange artificial light with bright, natural light that lets you cut ties with high energy bills. Products like the Solar Powered "Fresh Air" Skylights, the Sun Tunnel® Solar Night Light, and our solar-powered blinds are all featured in our Go Solar Series to help you create a greener home.

But the savings don't stop at cutting high energy costs: when you install any of VELUX's Go Solar products, you become eligible for a 30% Federal Tax Credit on product and installation! Because our Go Solar products qualify as Solar Electric Property, you can get back as much as 30% of what you put into your project if you install by 2021.

Example of a VELUX Fixed Skylight with the Go Solar Option:



Fixed Skylight Option

<i>Estimated price/savings</i>	
\$400	Fixed Skylight & Flashing
+ \$1,500	Installation
\$1,900	Final Cost

\$1,900



Includes fixed skylight, factory installed solar blind, and a free VELUX ACTIVE with NETATMO Gateway¹ + App¹

Go Solar Option

<i>Estimated price/savings</i>	
\$785	Fixed Skylight, Blind & Flashing
FREE	VELUX ACTIVE Gateway + App
+ \$1,500	Installation
- \$685	30% Federal Tax Credit*
\$1,600	Final Cost

\$1,600*

Go Solar and save \$300²

^{*}Based on tax credit eligibility. For more information visit veluxusa.com/go-solar.

¹VELUX ACTIVE Gateway not included with the Go Solar option for the VELUX Solar Powered "Fresh Air" Skylight.

²Actual installation costs will vary from these estimates based on common variables in roof construction and shaft construction. Local delivery costs and applicable sales tax not considered for these estimates. These numbers are provided as estimates only.

³One VELUX ACTIVE Gateway per order

Architectural Skylights

Octagonal Pyramid

Square Pyramid

Double Pitch

Structural Bridge

Extended Pyramid

Single Pitch

Low Profile

Modular Skylights



Architectural Skylights

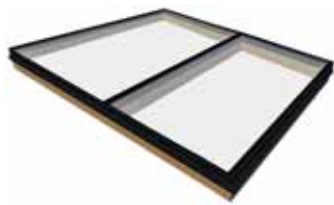
Pyramid Systems | Pitched Roof Applications



Octagonal Pyramid



Square Pyramid



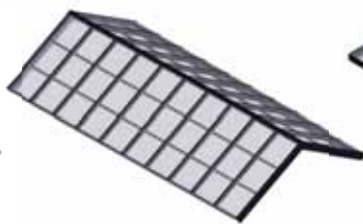
Low Profile



Double Pitch



Extended Pyramid



Structural Bridge



Single Pitch

Made up of stunning pyramid systems and impressive pitched roof applications, the award-winning Architectural Skylights offer a dramatic yet stylish way to incorporate more daylight into your home. Providing breathtaking sky views, the Architectural Skylights are completely customizable so you can create just the right look for your home.

- Unlimited design capabilities to create spectacular daylighting applications.
- Lightweight, metal-framed structural skylights capable of spanning up to 40 feet wide to fill your home with daylight.
- Accommodates multiple insulated glass panels to prevent heat gain in warm weather and reduce heat loss in cold weather.
- Available in a wide variety of high-performance glass and finish options to ensure just the right look for your home.

Standard aluminum cladding with Mill finish

Standard 1-1/16" high-performance LowE Laminated Glass

Lightweight system for flat roofs

Octagonal Pyramid supports 5 or more sides

Advanced glazing options available



Architectural Skylights

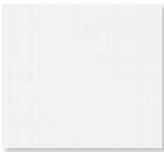
Modular Skylights



Roller Blind Options



Grey



White



Black

The VELUX Longlight 5-25° solution is a single series of modular skylights that provides stunning natural light throughout large rooms, corridors, and hallways. With its characteristic low-pitch design, the Longlight fits right along flat roofs as well as other areas where a subtle look is preferred.

- Prefabricated components ensure consistent quality throughout the build, fast and easy installation, and a perfect fit every time.
- Standard with Type 10 Glass, which features a dual-pane, low-energy, clear exterior over a laminated interior.
- Delivered with a special, prefabricated flashing to ensure a perfect fit and 100% water tightness.
- Available in a variety of configurations that include both venting and fixed modular skylights.
- Electrically operated, each solution includes an electric control system with wind and rain sensor.
- Individualized sub-construction based on roof construction ensures a precise, trouble-free installation process.

Roller blind is designed for the VELUX Modular Skylight, and is available in all standard module sizes

Roof pitch between 0° - 10° *

10-year guarantee on VELUX Modular Skylights

5-year guarantee on blinds, actuators, and other electrical components

Preconfigured systems up to 10 modules. Larger systems available.

*Assumes 0° roof pitch



Unit Skylights

- Solar-Powered
- Electric
- Manual
- Fixed
- SkyMax



Unit Skylights

Solar-Powered Skylights



Solar-Powered "Fresh Air"
Deck-Mounted
No Leak Skylight - VSS

Solar-Powered "Fresh Air"
Curb-Mounted
No Leak Skylight - VCS

**The
No Leak
Skylight**
No Leak Promise
No Worries

VELUX ACTIVE
Smart sensor-based operation
of your VELUX skylights,
and blinds.
with
NETATMO

**GO
SOLAR** For more about
Go Solar savings,
see pages 48-49.

The VELUX Solar Powered "Fresh Air" Skylight, our most innovative skylight yet, opens your home to a world of crisper, cleaner air and brighter days. With its striking design and effortless functionality, this skylight can boost your home's energy efficiency, while bringing in an abundance of natural light and fresh air.

- Solar-powered technology effortlessly opens and closes your skylight, no electricity needed.
- Venting feature maximizes the chimney effect, releasing hot, stale air trapped at the top of a ceiling.
- The equipped rain sensor automatically closes your open skylight at the first sign of rain to ensure your home and valuables below stay dry.
- The solar-powered, rechargeable battery continuously collects available daylight, even minimal amounts, to ensure your skylight is ready to use at any time.
- Pairs to a variety of VELUX factory-installed blinds.
- Compatible with VELUX ACTIVE, giving your skylight the ability to open and close automatically to match your home's ideal indoor climate.



Remote and insect screen included



Roof pitch for VSS skylights



Roof pitch for VCS skylights

30%
Federal Tax
Credit

Go Solar and be eligible to receive
the 30% Federal Tax Credit on
product and installation.*



Blind options
See page 82

*30% tax credit in effect through 2019. Credit changes to 26% in 2020, 22% in 2021. For more information visit veluxusa.com/go-solar



Unit Skylights

Solar-Powered Skylights



Solar-Powered "Fresh Air"
Self-Flashed
E-Class Skylight - EVMS



The E-Class Solar Powered Venting Skylight, part of VELUX's new E-Class Skylight Series, is a self-flashed skylight designed to allow more light and fresh air into your home than ever before. Its unique design also allows for quick, easy installation so you can start enjoying your skylight that much faster.

- Features a solar panel that captures available daylight to recharge a battery-powered operator and control system.
- Integrated Ultraseal Flashing and patented single-profile vinyl extrusion for leak-proof performance.
- Fitted with a rain sensor so your skylight automatically closes at the first sign of rain.
- Larger glass area provides up to 46% more daylight.
- Standard baked enamel finish in Quaker Bronze plus nine additional designer colors, including copper cladding, for customization.



Remote and insect screen included



Product roof pitch

30%
Federal Tax Credit

Go Solar and be eligible to receive the 30% Federal Tax Credit on product and installation.*

For use with thin roofing materials such as composition, slate, wood shingles and shakes up to 3/4" thick.

No assembly, step-flashing, mastic, or sealants needed.

*30% tax credit in effect through 2019. Credit changes to 26% in 2020, 22% in 2021. For more information visit veluxusa.com/go-solar



Unit Skylights

Electric Skylights



Electric "Fresh Air"
Deck-Mounted
No Leak Skylight - VSE



Electric "Fresh Air"
Curb-Mounted
No Leak Skylight - VCE

**The
No Leak
Skylight**
No Leak Promise
No Worries

VELUX ACTIVE
Smart sensor-based operation
of your VELUX skylights,
and blinds.
with
NETATMO

A refreshingly robust skylight, the VELUX Electric "Fresh Air" Skylight pours plentiful amounts of natural light and fresh air into your home. This skylight's seamless integration to your home's electricity gives you the flexibility to vent your home any time of day.

- Quietly opens to vent your home and closes with one touch of the remote.
- Daily venting with this skylight allows cool, fresh air to fill your home.
- The rain sensor automatically closes an open skylight at the first sign of rain.
- Seamlessly pairs with any VELUX factory-installed blinds to complete the look of your room.
- Compatible with VELUX ACTIVE, giving your skylight the ability to open and close automatically to match your home's ideal indoor climate.



Remote and insect screen included



Roof pitch for VSE skylights



Roof pitch for VCE skylights



Blind options
See page 82



Unit Skylights

Manual Skylights



Manual "Fresh Air"
Deck-Mounted
No Leak Skylight - VS



Manual "Fresh Air"
Curb-Mounted
No Leak Skylight - VCM

**The
No Leak
Skylight**
No Leak Promise
No Worries

**GO
SOLAR**

For more about
Go Solar savings,
see pages 48-49.

Lighten and freshen up your home at any time with the VELUX Manual "Fresh Air" skylight. This skylight brings a wealth of light into your space while releasing stale air from your home.

- Smooth operator hook enables you to effortlessly open and close your skylight to crank up the fresh air in your home.
- Daily venting of your skylight allows hot, stale air trapped at the top of your ceiling to escape, making room for fresh air to enter.
- Never worry about pests entering your home as all "Fresh Air" skylights are equipped with a well-built insect screen.
- Perfect pairing to any VELUX blind lets you finish the look of your room with pops of color.



In-reach crank handle
See page 87



Roof pitch for VS skylight



Roof pitch for VCM skylight

30%
Federal Tax Credit

Go Solar and be eligible to
receive the 30% Federal
Tax Credit on product and
installation.*



Blind options
See page 82

*30% tax credit in effect through 2019. Credit changes to 26% in 2020, 22% in 2021. For more information visit [veluxusa.com/go-solar](https://www.veluxusa.com/go-solar)



Unit Skylights

Manual Skylights



Manual "Fresh Air"
Self-Flashed
E-Class Skylight - EV

Installed so it sits directly on your roof deck, the E-Class Manual Venting Skylight opens to allow fresh air to flow throughout your home. And with a larger glass area to let in even more daylight, this E-Class option lets you experience the very best of what skylights have to offer.

- Features smooth-turning handles for in-reach applications and rods for out-of-reach applications to easily open skylights.
- Ready to be installed right out of the box with no mastic, step-flashing, or sealants required. Installs in as little as 30 minutes.
- Meets Energy Star® requirements and features condensation control that protects against leaks and eliminates the need for weep holes.
- Standard baked enamel finish in Quaker Bronze or customize your look with one of nine additional designer colors, including copper cladding.



Product roof pitch

Insect screen and operating hook included.

Custom sizes and finishes available

For use with thin roofing materials such as composition, slate, wood shingles and shakes up to 3/4" thick.

No assembly, step-flashing, mastic, or sealants needed.



Photos © 2019 Scripps Networks, LLC. Used with permission; all rights reserved.

Unit Skylights

Fixed Skylights



Fixed
Deck-Mounted
No Leak Skylight - FS



Fixed
Curb-Mounted
No Leak Skylight - FCM

The
No Leak
Skylight
No Leak Promise
No Worries

GO
SOLAR

For more about
Go Solar savings,
see pages 48-49.

The VELUX Fixed Skylight is perfect for visually expanding areas such as hallways, stairwells, and other closed-in, dark spaces that can be transformed with light and sky views. It provides an economical choice in creating a spacious home that is filled with natural light.

- This skylight’s clean exterior profile won’t obstruct your roofline, adding natural light discreetly.
- Versatile in size, allowing for a greater flexibility and positioning options for your room.
- Equipped with high-quality LowE3 glass that is coated to keep the skylight surface virtually spotless.
- Able to fit any VELUX blind to give you ultimate control over the light levels in your space.

Pre-finished white interior wood frame for FS skylight



Roof pitch for FS skylight



Roof pitch for FCM skylight

30%
Federal Tax Credit

Go Solar and be eligible to
receive the 30% Federal
Tax Credit on product and
installation.



Blind options
See page 82

*30% tax credit in effect through 2019. Credit changes to 26% in 2020, 22% in 2021. For more information visit [veluxusa.com/go-solar](https://www.veluxusa.com/go-solar)



Photos © 2019 Scripps Networks, LLC. Used with permission; all rights reserved.

Unit Skylights

Fixed Skylights



Fixed
Self-Flashed
Skylight - QPF



Fixed
Self-Flashed
E-Class Skylight - EF



For more about
Go Solar savings,
see pages 48-49.

The VELUX Self-Flashed Fixed Skylight visually expands and dramatically changes the look and feel of your space with natural light. With its integration of VELUX flashing, this skylight has one of our quickest installation times.

- This skylight's clean exterior profile won't obstruct your roofline, adding natural light discreetly.
- Versatile in size, allowing for greater flexibility and positioning options for your room.
- Integrated with VELUX flashing makes for a quick and easy installation.
- Equipped with high-quality LowE3 glass that is coated to keep the skylight surface virtually spotless.
- Able to fit any VELUX blind to give you ultimate control over the light levels in your space.

Designed for use with asphalt shingles



14° - 60°
3:12 - 20:12

Roof pitch for
QPF skylight



14° - 85°
3:12 - 137:12

Roof pitch for
EF skylight

30%
Federal Tax Credit

Go Solar and be eligible to receive
the 30% Federal Tax Credit on
product and installation.



Blind options
See page 82

*30% tax credit in effect through 2019. Credit changes to 26% in 2020, 22% in 2021. For more information visit [veluxusa.com/go-solar](https://www.veluxusa.com/go-solar)



Unit Skylights

SkyMax Skylights



SkyMax, a curb-mounted skylight built to maximize daylight, doubles the square footage of standard flat glass skylights. Open your home to daylight and sky views in a big way with SkyMax!

- Single light source spanning up to 32 square feet in any dimensions with the capabilities to reach 10 feet.
- Combines the thermal performance of small skylights with the structural benefits of a larger, aluminum-framed structural skylight.
- Available in a variety of high-end glazing options to maximize thermal performance.
- Standard baked enamel finish in Quaker Bronze with anodized and high-performance designer color finish options, as well as copper cladding, available.



Product roof pitch

Sizes are based upon the outside curb dimension (OCD)

For use with site-built curb and flashing
Minimum 3 1/2"

Quaker Bronze paint finish is standard. Custom finish colors and copper cladding available



Flat Roof Skylights

- CurveTech Cover
- Polycarbonate Cover
- Exit Polycarbonate



Flat Roof Skylights

Fixed Skylight



Fixed - CFP
CurveTech Protective Cover



Fixed - CFP
Polycarbonate Protective Cover

The VELUX Fixed Flat Roof Skylight is designed for homes with flat or low-pitch roofs to transform and improve virtually any space with daylight. Topped with either CurveTech glass or a polycarbonate dome, its unique design lets in more daylight, easily drains rainwater, and stands out externally as a modern addition to roof surfaces.

- Innovative curve shape lets rainwater easily drain off, ensuring clearer sky views and more daylight.
- Insulated PVC frame and double-paned, low-energy inner glass work to reduce heat loss to maintain your ideal indoor climate.
- Protective cover keeps inner pane warmer, reducing the likelihood of condensation and minimizing sound from rain and hail.
- Features maintenance-free PVC curb with polystyrene insulation and toughened glass that makes it virtually impervious to damage.

Insulated PVC frame and two-layer pane



Roof pitch for CFP skylight

Available in 6 sizes



Flat Roof Skylights

Exit Skylight



Exit - CXP
Polycarbonate Cover

Brighten your space and transform any room with sunlight and sky views with the VELUX Flat Roof Exit Skylight. Pleasing to the eye whether you're inside or out, this skylight also opens to allow fresh air to flow through your home and easy access to your roof.

- VELUX high-performance insulation is integrated into the frame for the best possible protection against heat loss.
- Manually operated and can be opened to a 60° angle to allow easy roof access.
- Double-glazed, low-energy unit features a laminated inner pane for additional safety.
- Special structure of the polycarbonate dome, pane, and frame deflect and reduce noise from rain, hail, aircraft, and traffic.



Roof pitch for CXP skylight

Available in 3 sizes



Skylight Accessories

Blinds

VELUX ACTIVE with NETATMO

Glass Options

Accessories

Blinds

Room-Darkening, Double-Pleated

Light-Filtering, Single-Pleated

Blackout

Venetian

Whether you're looking to decorate your home, control the amount of daylight coming into it, ensure a comfortable room temperature, or are just looking to reduce energy costs, VELUX blinds are specifically designed to meet your needs. In addition to their sleek, modern look, all VELUX blinds are designed with supreme functionality because your home and skylight deserve the very best.

Find the right blind for your lighting needs below!



Room-Darkening, Double-Pleated Blinds
Designed with a unique honeycomb structure, this pleated blind adds a textured appearance while working to block even the brightest sunlight.

- Energy efficient
- Easy to install
- Solar-powered and manual options available



Light-Filtering, Single-Pleated Blinds
Softly diffuse the natural light from your skylight with this single-pleated blind. A perfect choice to let you enjoy all the light without the glare.

- Sleek design
- Solar-powered and manual options available



Blackout Blinds
Ideal for movie rooms and bedrooms, blackout blinds are made with a flat material designed to block all incoming light.

- Flat, complementary design
- Wide selection of colors
- Solar-powered options available
- Manual option available for roof windows only



Venetian Blinds
When you want both style and comfort, the venetian blind is your best option for light control.*

- Offers privacy and control of light levels
- Easy to clean
- Low-maintenance
- Manual option available

*Only available for FCM & FS models



Room-Darkening, Double-Pleated Blinds - Solar-Powered or Manual

White 1045	Beige 1155	Green 1157	Charcoal 1047	Gray 1158	Golden Beige 1049	Brown 1159	Blue 1156	Raspberry 1051	Cherise 1162	Yellow 1160	Orange 1161



Light-Filtering, Single-Pleated Blinds - Solar-Powered or Manual

White 1016	Classic Sand 1259	Cappuccino 1264	Latte 1261	Misty Brown 1260	Metallic Blue 1265	Luscious Lime 1266	Burned Orange 1267	Delightful Blue 1268	Classic Red 1269	Snowy White 1255	Classic White 1256
Wavy White 1257	Delightful Cream 1258	Infinite Gray 1262	Metallic Gold 1263	Sunny Stripes 1270	Sunny Yellow 1271	Sunny Blue 1272	Sunny Orange 1273				



Blackout Blinds, Flat Fabric - Solar-Powered or Manual *(manual for roof windows only)*

White 1025	Pale Blue 4555	Beige 1085	Beige 4556	Light Gray 1705	Essential Pattern 4558	Dark Brown 4559	Blue 1100	Dark Red 4560	Blue 2055	Dark Purple 4561	Dark Pattern 4562
Curry 4563	Orange 4564	Pale Pink 4565	Gray 0705	Olive Green 4567	Vegetal Pattern 4568	Pale Green 4569		Light Blue 4571	Flash Red 4572	Black 3009	Graphic Pattern 4573



Venetian Blinds - Manual

White 7001	Delicate Vanilla 7055	Spingled Gold 7056	Brushed Silver 7057	Charcoal 7012	Midnight Blue 7058	Burned Nougat 7059	Passionate Red 7060	Wenge Wood 7061

Blind slats measure 1.375"



In-stock blinds ship directly with your skylight. Please allow 2-4 business days for delivery.



In-stock blinds ship directly with your skylight. Please allow up to 13 business days for delivery.



Special order blinds ship separately from your skylight. Please allow 14 business days for delivery. Special order blinds are non-returnable and non-refundable.

VELUX ACTIVE

Climate Control Monitoring System



Mobile Control
Operate your VELUX skylights and blinds from your smartphone.

Internet Gateway
Connects to Internet to monitor indoor climate to provide feedback for operations

Climate Sensor
Constantly measures temperature and air quality (humidity and CO₂)

Departure Switch
Securely close skylights and activate safe mode to limit skylight functions and only operate blinds

Whether you're at home or away, VELUX ACTIVE with NETATMO is your home's climate control and monitoring system. Trusted to create a healthier home environment, VELUX ACTIVE's sensor-based controls pair with your smartphone to automatically adjust your skylights and blinds for ideal temperature and air quality.

Download your VELUX ACTIVE app now for a smarter, healthier home.



VELUX ACTIVE

Smart sensor-based operation of your VELUX skylights, and blinds.

with
NETATMO

Glass Options

Clean, Quiet & Safe Glass | Impact | White Laminated | Snowload | Tempered



Neat® glass: The smooth surface disperses water evenly, removing dirt more quickly and reducing water spots.

Ordinary glass: Water beads higher on rough surface of ordinary glass, causing more spots and greater cleaning needs.

Clean, Quiet & Safe Glass (xx04)

When selecting a VELUX Skylight, rest assured your skylight comes with our most-recommended, top-rated glass: Clean, Quiet & Safe. Named for its three biggest benefits, this glass is made of state-of-the-art, energy-conserving LowE glass, designed to keep your home warmer in the winter and cooler in the summer. Building codes require laminated glass for all applications where skylights are 12' above the floor or higher.

*Dual-pane laminated glass standard on:
VSS, VCS, VSE, VCE, VS, FS, EF, EV, EVMS skylights*

Tempered Glass (xx05)

With an additional degree of hardness, this glass shatters into small pieces rather than larger shards of glass if broken.

Available on: VCM, VCS, FCM, QPF

Clean, Quiet & Safe glass is also available in the following options:

		
Impact (xx06) The glass is very resistant to penetration from flying debris. Our impact glass meets the requirements for wind-borne debris protection of the IBC (International Building Code Commercial), IRC (International Residential Code), and the Florida Building Code 2001, with exception of Dade County Protocols. <i>Available on: VSS, VSE, VCE, VS, VCS, VCM, FS, FCM, QPF, EF</i>	White Laminated (xx08) Made up of bonded layers, this glass holds together if broken. Plus with its white coating, it can diffuse 100% of the light flowing into your home. <i>Available on: VSE, VCE, VS, VCS, VCM, FS, FCM, QPF, EV, EF</i>	Snowload (xx10) Ideal for climates that experience heavy amounts of snowfall a year, snowload glass ensures your skylight can support the added weight from accumulated snow. <i>Available on: VSS, VSE, VCE, VS, VCM, FS, FCM</i>



Sensor-Based Ventilation

Smart sensors monitor temperature, humidity, and CO₂ levels and operate your skylights accordingly for a healthier indoor climate.



Daily Ventilation

Depending on local weather conditions, the system will air out three times a day, giving you a healthier home.



Smart Heat Protection

Proactively closes your blinds based on local weather forecast information.



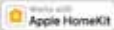
Nighttime Mode

You can choose for the blinds to go down at the end of the day for energy savings and privacy.



Say the Word

Apple HomeKit® compatibility lets you use voice control to operate your VELUX skylights and blinds.



Easy Departure

Tap the VELUX ACTIVE departure switch on your way out to close your VELUX skylights and only operate blinds.

Accessories

Skylight Accessories

Home Automation

VELUX ACTIVE Starter Kit

Includes Climate Sensor, Departure Switch, and Internet Gateway

Model
KIX 300 US



VELUX ACTIVE Indoor Climate Sensor
Additional sensor for other rooms with VELUX skylights

Model
KLA 300 US



VELUX ACTIVE Departure Switch
Additional departure switch

Model
KLN 300 US



Home Automation Integration Kit

Wirelessly control up to five groups of solar/electric-powered skylights or blind

Model
KLF 200 US



Remotes & Electric

Basic Remote Control

Remote control allows users to operate skylights or blinds from anywhere in the room

Model
KLI 310 US



Battery Backup

Provides limited operation of VSE, VCE skylights and electric blinds during power outages

Model
KLB 100 WW



Installation Accessories

Trim Kit

Three 57 1/2" pieces one kit works for most sizes

Model
ZZZ 213B



Blind Accessory Tray

Needed for blind installation on fixed curb-mounted skylights (2222-4646). 2270 size now available when ordered separately

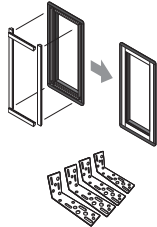
Model
ZZZ 199



Replacement Kit

4 pre-cut drywall groove filler pieces and 4 structural brackets. Sizes: C01, C04, C06, C08, D06, D26, M02, M04, M06, M08, S01, S06

Model
ZZZ 238 + size



Sun Screen Adapter Kit

Allows skylight models manufactured prior to January 1, 2010 to have special order blinds. V-venting, F-fixed

Model
ZZZ 232V

ZZZ 232F



Structural Brackets

4 brackets

Use in deck-mounted applications with an oversized rough opening

Model
ZZZ 219



Accessories

Skylight Accessories

Installation Accessories

Additional Step Flashing

Deck/Curb

Deck-mounted = 14 pieces - ZZZ 200 0000
Curb-mounted = 11 pieces - ZZZ 200 0000C

Model
ZZZ 200 0000

ZZZ 200 0000C



Adhesive Underlayment

9" x 26' per roll

Model
Z0Z 216 L



Manual Controls

Telescopic Rod 6'-10' for Manual Skylights

For VS and VCM skylights from 1982 to present and sun screen accessories made previous to 2010

Model
ZCT 300



Telescopic Rod 4'-6' for Manual Blinds

For operation of manual sun screen accessories

Model
ZXT 200



Universal Extension 3'

Extension piece for telescopic rods to extend an additional 3 feet

Model
ZCT 100



Manual Controls

VS/VCM Crank Handle

Operate in-reach manual venting skylight

Model

ZZZ 201 (VS)

ZZZ 212 (VCM)



VS/VCM Replacement Hook

Replacement hook for out-of-reach manual venting skylight

Model

ZZZ 202 (VS)

ZZZ 211 (VCM)



Extension Chain Operator

Extension for manual crank handle or manual angle adapter to make skylights easier to operate.

Model
ZZZ 208



Angle Adaptor for Chain Operator

Used in conjunction with the manual hook for out-of-reach applications to make the skylight easier to operate with a manual pole

Model
ZZZ 203



Roof Windows

Top-Hinged

Center-Pivot

Roof Access

CABRIO™



Roof Windows

Top-Hinged Roof Window | Center-Pivot Roof Window



Top-Hinged
Roof Window - GPU



Center-Pivot
Roof Window - GGU

Note: All cladding components for roof windows are included in the flashing box. If VELUX flashing is not used, then cladding pieces must be ordered.

The sky is the limit with a Top-Hinged Roof Window! Operated with an elegant handle at the bottom, VELUX Top-Hinged Roof Windows give you a full, open view of your skyline and maximize the amount of natural daylight that comes in. Top-Hinged Roof Windows are the perfect choice for loft conversions.

- Enjoy panoramic views while increasing your energy efficiency and natural ventilation.
- Greatly increase the amount of natural light in your rooms.
- Convenient bottom operation, the perfect choice for loft conversions with windows in easy reach.

Opens to a maximum of 45 degrees
allowing access to the outdoors



15° - 55°
3:12 - 17:12

Roof pitch for
GPU roof window



Special order blind options
See page 82

Put fresh air at your fingertips with a VELUX Center-Pivot Roof Window. Ideal for rooms with high humidity, like kitchens and bathrooms, but they fit nicely in any room because of their modern and contemporary look. The innovative top control bar allows you to install the window lower than an equivalent bottom-operated window to get an excellent view while standing and when seated.

- A top control bar allows you to pull once for background ventilation, twice to open the window and can rotate 180 degrees.
- Convenient access and views even with furniture placed beneath the roof window.
- Low installation allows for more flexibility and better views.

Easy to open and quick to close
with the top control bar



15° - 90°
3:12 - 90°

Roof pitch for
GGU roof window



Special order blind options
See page 82

Roof Windows

Roof Access Window



Roof Access Window - GXU

Note: All cladding components for roof windows are included in the flashing box. If VELUX flashing is not used, then cladding pieces must be ordered.

Open your home up to the sky—and your roof! With the VELUX Roof Access Roof Window, embrace the best of the outdoors and turn unused rooms into inspired spaces. We recommend this roof window if you need to gain access to your roof or add ventilation to your home.

- Allows for easy access to your roof for repairs, maintenance, emergency, and egress.
- A locking device keeps the window in an open position so you never have to worry about it falling shut.
- Sleek outer appearance that blends in with your roofline.
- Can be installed to open as either a left-hinged or right-hinged window.

Easy access to the outdoors

The FK06 swings open to a 87.5° angle to satisfy
egress requirements for emergency escape



15° - 85°
3:12 - 17:12

Roof pitch for
GXU roof window



Special order
blind options
See page 82

Roof Windows

CABRIO™ Balcony Roof Window



Balcony Roof Window -
GDL CABRIO™

The VELUX CABRIO balcony opens in seconds to give your loft space a place in the sun. The innovative balcony adds air, light and a great view to your home. For added convenience, the VELUX CABRIO balcony fits flush with the roof when closed.

- Enjoy a balcony any time as the VELUX CABRIO transforms from roof window to balcony in seconds.
- Bring the outside in to let in more natural daylight and fresh air.
- Versatility of opening the top half of the CABRIO to become a roof window or open both windows fully to create a balcony.

Dual-sash operation: top opens for ventilation and bottom opens outward to create a roof balcony

When the GDL CABRIO™ roof window is closed, a ventilation flap can be opened to provide a breath of fresh air, even if it is raining outside



Roof pitch for
GDL CABRIO™ roof window



Sun Tunnel® Skylights

Low-Profile Flashing

Pitched Metal Flashing

Low-Profile, Flat Glass Flashing

Curb-Mounted Metal Flashing



Sun Tunnel® Skylights

Rigid & Flexible

Rigid kits include two 12" 45 degree adjustable elbows and one 24" tunnel extension
Flexible kits include 8' of flexible tunnel



14" & 22"
Model TGF

10", 14", & 22"
Model TGR

Low-Profile Metal Flashing



14"
Model TLR

Low-Profile Flat Glass Flashing (Available in 14" only)



Every room in your home deserves to be filled with natural light—even those in the center of your home. Unlike traditional windows, the VELUX Sun Tunnel® Skylight can be installed within an afternoon, making it one of the fastest and most inexpensive ways to transform your room with natural light.

- Versatile and highly reflective tunnel that lets light travel from your roof down to the space below uninhibited.
- Fastest VELUX skylight to install, letting you enjoy bright, natural light in a single afternoon.
- Equip your Sun Tunnel® with multiple diffuser options to finish the look of the room.



14"
Model TMF

10" & 14"
Model TMR

Pitched Metal Flashing



14"
Model TCR

Curb-Mounted Metal Flashing (Available in 14" only)



Go Solar Option: Add the ZTZ 213 Solar Night Light for additional low level light in rigid sun tunnels.



Roof pitch for TGF, TGR, TMF, TMR, and TLR



Roof pitch for TCR

30%
Federal Tax
Credit

Go Solar and be eligible to receive the 30% Federal Tax Credit on product and installation.

VELUX Sun Tunnel® Skylights capture daylight and deliver it to the interior of your home without the need for complex construction.

1 Clear UV Resistant Dome Captures the most light possible with a clear dome.

2 Adjustable Pitch Adapter Pivots the tunnel towards the sun and allows for easier installation.

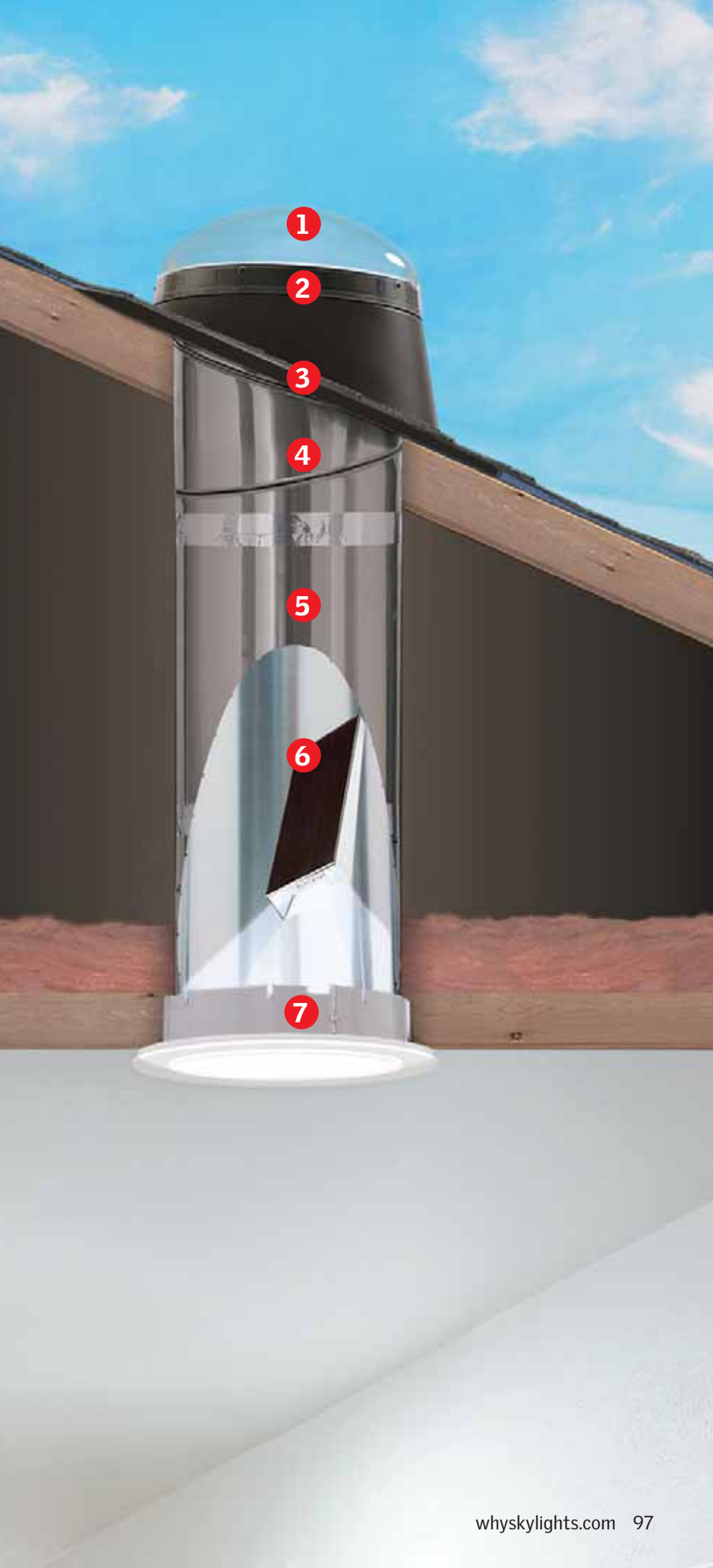
3 One-Piece Metal Flashing Provides maximum light capturing while guaranteeing no water penetration.

4 Adjustable Elbow (Rigid Tunnel) Rotates 45°. Elbows are 12" long.

5 Tunnel Assembly System Offers quick and easy installation of tunnel.

6 Solar Night Light (Rigid Tunnel) Ensures sun tunnels provide light all day and night. Optional add-on.

7 Pre-Assembled Ceiling Ring Diffuses light into the space using an energy efficient frosted dual diffuser system.



*30% tax credit in effect through 2019. Credit changes to 26% in 2020, 22% in 2021. For more information visit veluxusa.com/go-solar

Sun Tunnel® Skylight Accessories

Solar Night Light
Sun Tunnel® Skylight Accessories



Accessories

Solar Night Light



This powerful combination of the VELUX Sun Tunnel® Skylight and the Solar Night Light provides you with constant free light, day or night. The Sun Tunnel's* unique cylinder shape fits between the beams of your ceiling to allow light to travel from your roof down to the space below uninhibited. And when the sun goes down, the moon-like glow of the Solar Night Light will help guide your way.

- Mounts discreetly in seconds
- Provides light for over 72 hours without a charge
- Charges within a few hours on a sunny day



Solar Night Light
ZTZ 213

GO
SOLAR

For more about
Go Solar savings,
see pages 48-49.

Accessories

Sun Tunnel Accessories

Lighting

Solar Night Light
Provides low level light *available for rigid tunnel only*
Model
ZTZ 213

Daylight Controller
Motorized variable positioning daylight control device
Model
ZTP

Power Supply
Power supply for control devices
Model
ZZZ 233

Universal Electric Light Kit
Designed to let your sun tunnel be a source of light at night and also during the day
Model
ZTL 214
ZTL 122

Diffusion Enhancer - 6" band
Highly reflective obscure 6" band designed to diffuse direct sunlight
Model
ZTZ 209

Flashing

Curb-Mounted Flashing - Tile
Install on tile roofing material over 3/4" thickness for roof pitch 14-60°
Only for TCR
Model
ECW

Curb-Mounted Flashing - Tile
Water-tight flashing without the use of sealants Only for TMR and TMF
Model
ZTM 0000 50

Tunnel

Rotation Coupler
Enables quick tunnel connections when getting around obstacles in the attic is required
Model
ZTZ 211

Elbows
Can be used at bottom, middle, or top of your installation - can form a 90 degree bend using multiple elbows with rotating couplers
Model
ZTE 0000

Suspension Wire Kit
12-gauge wire and fastener set to secure longer tunnel sections
Model
ZTZ 203

Rigid Tunnel
24" reflective tunnel sections *available in bulk quantities*
Model
ZTR 2'- 1 unit ZTR 12'- 6 units
ZTR 4'- 2 units ZTR 24'- 12 units
ZTR 6'- 3 units

Performance Enhancing

Energy Kit
Designed to increase energy efficiency; includes a thermal plate and a diffusing disc
Model
ZTC 0051US
ZTC 0041US

Exterior Fire Band
Designed to meet fire prevention requirements of building codes - not available for TSR 10"
Model
ZZZ 192

Vapor Barrier
Designed for protecting flashing components and ceiling opening from condensation
Model
ZTY

Decorative Diffusers
Simple way to enhance your fifth wall and ensure that your diffuser matches the décor and feel of the room

Model	Micro Fresnel ZTB 4004US	Triple Wave ZTB 4005US	Brushed Metal ZTB 4006US	Prismatic ZTB 4007US	Bubbles ZTB 4008US	Natural light ZTB 4009US
Description						

The No Leak Skylight

3 Layers of Protection

From the very beginning, VELUX has been committed to putting only the best skylights in the homes of our customers. That meant addressing the most common problem skylights have: after a while, they start to leak.

It's such a common problem that, when we solved it, we dubbed our skylights the "No Leak Skylight" and crafted a matching No Leak Promise as our assurance to you that your VELUX skylight will not leak.

Serving as our warranty, the No Leak Promise ensures a 10-year installation warranty plus 20 years on glass, 10 years on product, and 5 years on blinds and controls.

We're able to make and keep this promise thanks to our patented three layers of water protection on our deck- and curb-mounted skylights.

No matter which skylight you choose, you can rest easily beneath it knowing that, while it lets in abundant sunlight and fresh air, it will never let in rain.

Deck-Mounted - 3 layers of protection

- 1

Deck Seal
The pre-attached deck seal on all deck-mounted skylights provides a seal between the frame and roof for a leak-proof installation.
- 2

Adhesive Underlayment
Adhesive underlayment for secondary water protection against the harshest weather conditions.
- 3

Flashing
Engineered flashing for easy installation and primary water protection.

In order to qualify for the 10-year installation warranty, VELUX flashing must be purchased.

Curb-Mounted - 3 layers of protection

- 1

Gasket
A pre-attached skylight gasket provides a tight seal between a standard site-built curb and the skylight.
- 2

Adhesive Underlayment
Adhesive underlayment for secondary water protection against the harshest weather conditions.
- 3

Flashing
Engineered flashing for easy installation and primary water protection.

In order to qualify for the 10-year installation warranty, ECL shingle or ECW tile flashing must be purchased.



The No Leak Skylight™
• No Leak Promise • No Worries

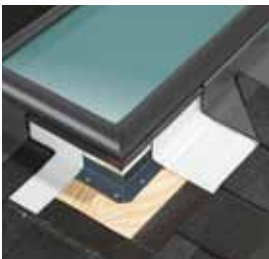
Flashing Systems

Deck-Mounted Flashing | Curb-Mounted Flashing

A crucial part of our complete system, VELUX Skylight Flashing Kits are designed to shed water without relying on sealants that can break down over time. No matter the scope of your project, we offer a variety of skylight flashing systems to ensure a weather-tight fit for virtually all roof types and slopes so you can easily install the skylight of your dreams.

Flashing must be purchased with skylights and installed properly to benefit from the No Leak Warranty.

Deck-Mounted Flashing Systems



- Shingles/Shakes – EDL
- Step flashing pieces interweave with roofing material for proper water drainage.
 - Adhesive underlayment included in this flashing kit.
 - Additional step pieces may be required for shakes and other thick roofing materials.



- Combi Applications
- Type EKL works with groupings on low-profile roofing materials and requires 4" over-and-under spacing and 2.5"-12" side-by-side spacing in ½" increments.
 - Type EKW works with groupings on high-profile roofing materials and requires 4" side-by-side spacing.
 - Available as a special order with varying lead-times. Call for more information.



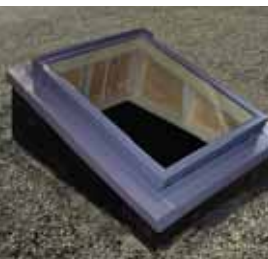
- Tile Roofing – EDW
- Patented sill flashing that features pliable pleats that form to meet most types of tile.
 - Side and head flashing pieces form a gutter to direct water away from the skylight.
 - Note: Not available for VSS.



- Metal Roofing – EDM
- Flashing pieces interlock with roofing material for a fast, weather-tight installation.
 - Sill apron features pliable pleats that form to the roof.



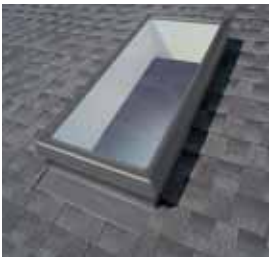
- Copper Cladding and Flashing
- Available for select deck-mounted VELUX roof windows and skylights.
 - Available as a special order with varying lead-times. Call for more information.



- Bi-pack Flashing – ECB*
- Used with a site-built curb on low-sloped roofs.
 - No bending of flashing required.
 - Applied to 2" x 4" lumber and plywood.

*No Leak Warranty not applicable

Curb-Mounted Flashing Systems



- Shingles/Shakes – ECL
- Step flashing pieces interweave with roofing material for proper water drainage.
 - Adhesive underlayment included in this flashing kit.
 - Additional step pieces may be required for shakes and other thick materials.



- Tile Roofing – ECW
- Patented sill flashing that features pliable pleats that form to meet most types of tile.
 - Side and head flashing pieces form a gutter to direct water away from the skylight.
 - Note: not available for VCS.

One of the most straightforward ways to help meet energy codes as a builder or architect, while still designing bright, airy buildings, is to specify ENERGY STAR® certified products.



Most VELUX residential products are ENERGY STAR® certified in all 50 states, which means they meet energy efficiency standards set by the US Environmental Protection Agency (EPA). In order to be ENERGY STAR® certified, fenestration products must have their U-factor, Visible Transmittance, and Solar Heat Gain Coefficient ratings independently tested and approved under the FenStarSM Certification Program of the National Fenestration Rating Council (NFRC) to qualify.

By using ENERGY STAR® certified products, architects and builders can use skylights to bring much needed daylight and fresh air inside, allowing them to create more attractive buildings and more livable spaces while still meeting local energy codes.

In warmer climates, there is great potential for lighting energy savings by using emerging control technologies like VELUX ACTIVE or more effective daylighting products like VELUX skylights with blinds and Sun Tunnel® Skylights.

Visit energystar.gov for more information.

Code Compliance

Performance Requirements

VELUX offers a broad array of skylights, roof windows, and sun tunnels that meet the applicable performance requirements and testing and labeling standards written into the most current US Model Codes:

- 2018 IBC (International Building Code)
- 2018 IRC (International Residential Code), and
- 2018 IECC (International Energy Conservation Code),
- As well as local and regional codes based on the above codes.

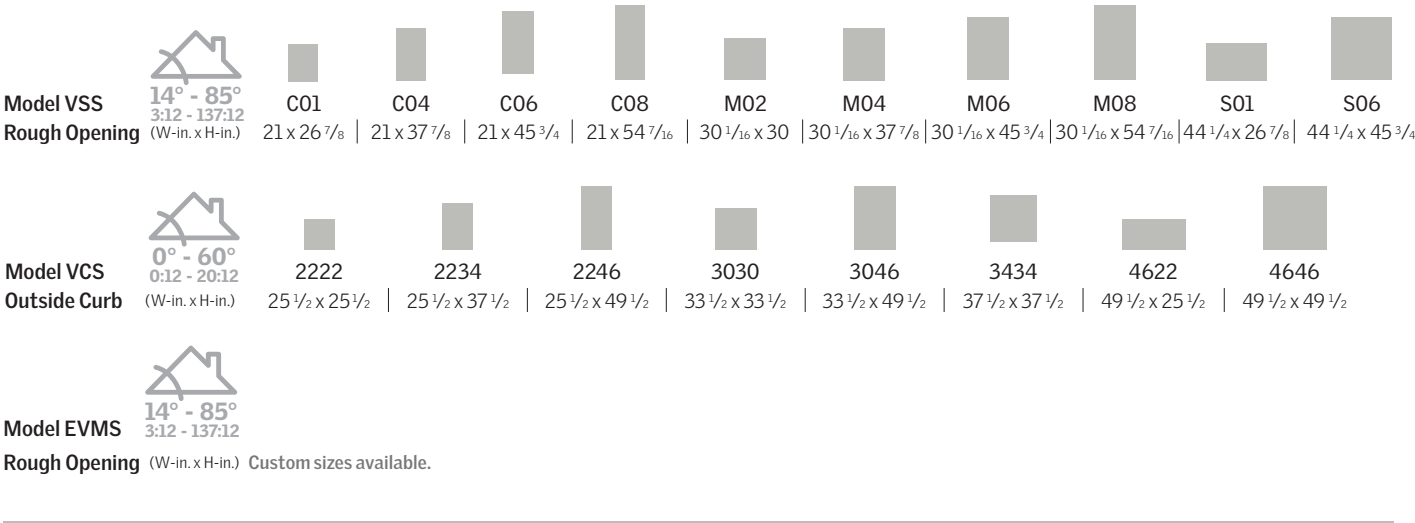
Additionally, electrical components built into VELUX products are UL listed.

Standard VELUX residential skylights and sun tunnel products also meet or exceed applicable Powersmart requirements, in addition to those of the current and prior North American Fenestration Standards (NAFS), also known as AAMA/WDMA/CSA 101/I.S.2/A440. Copper-clad versions may not exceed these requirements but do meet other standards required of them.

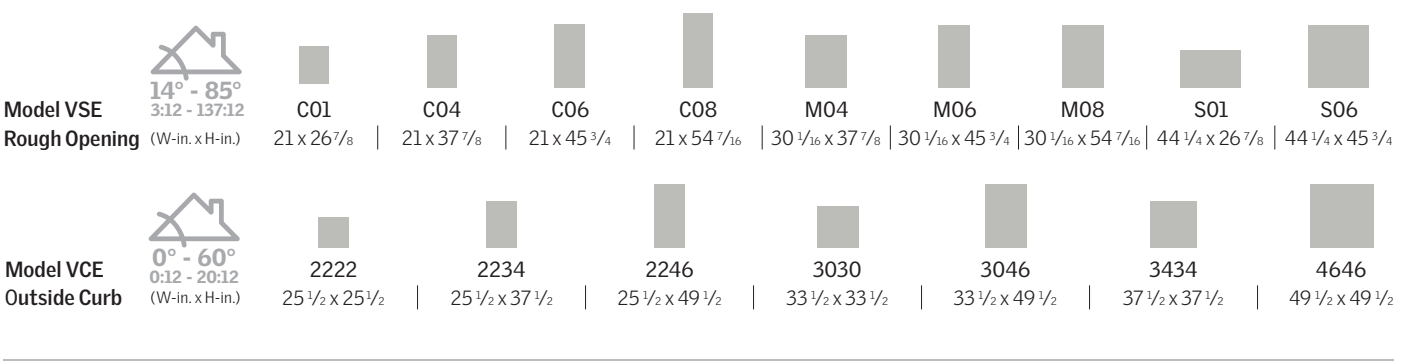
To verify these attainments on-site, the products are shipped with all required labels to expedite the inspection and final acceptance process. VELUX confidently certifies through these labels that only products consistent with the tested specimens are sent to the job.

Product Size Charts

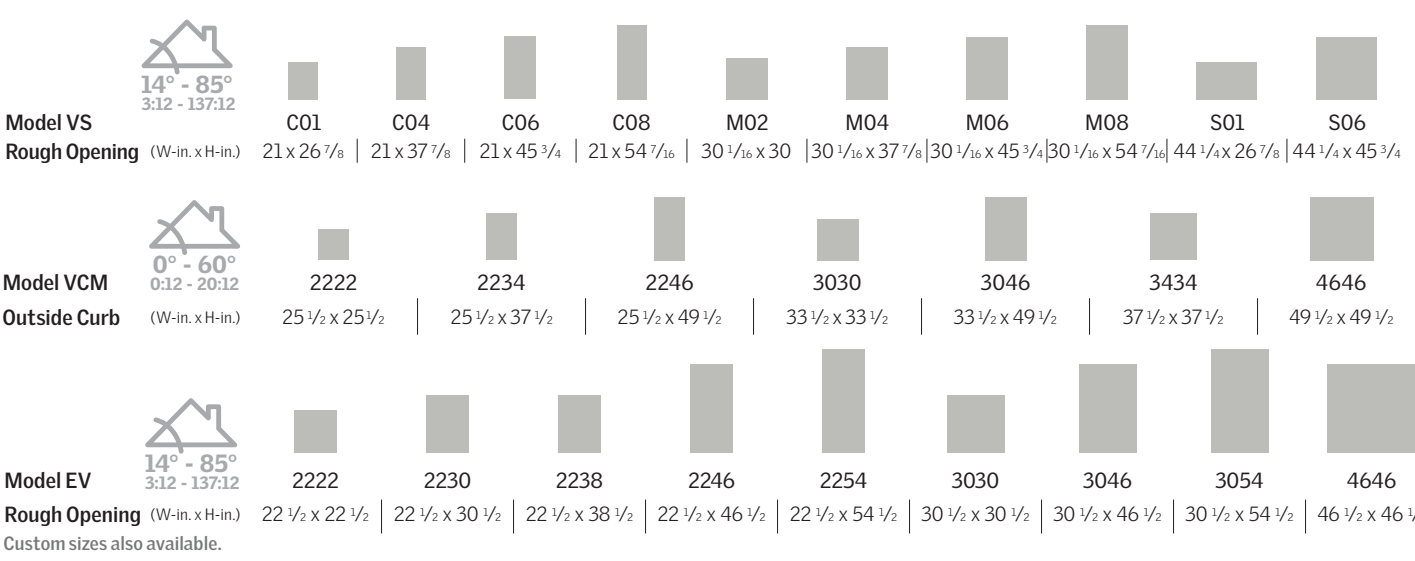
Solar-Powered "Fresh Air" Skylight Sizes



Electric "Fresh Air" Skylight Sizes

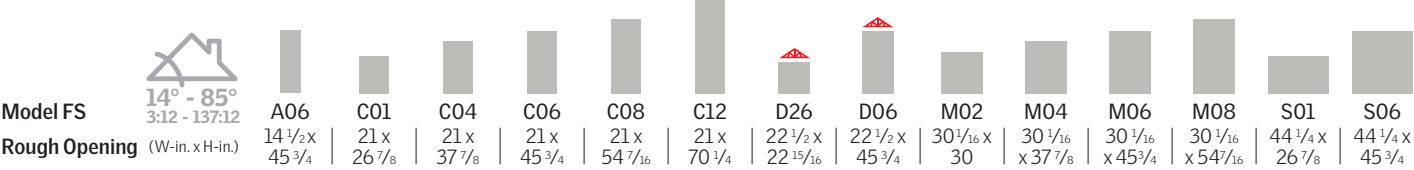


Manual "Fresh Air" Skylight Sizes

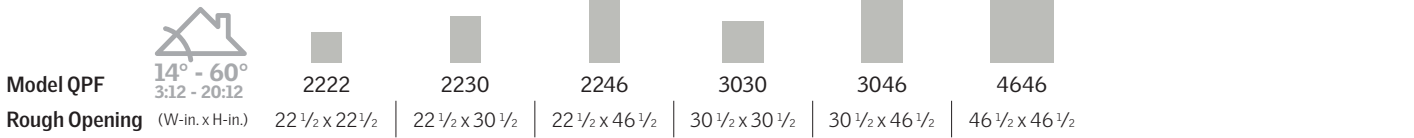
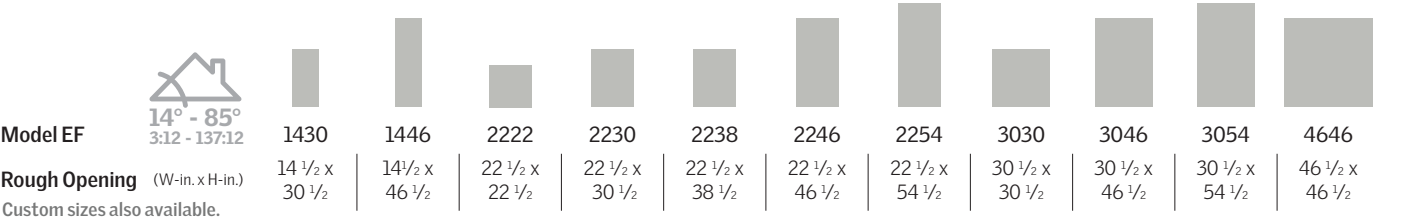
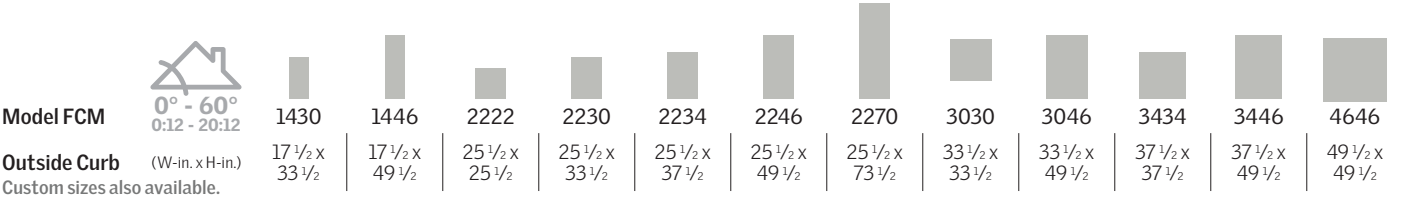


Product Size Charts

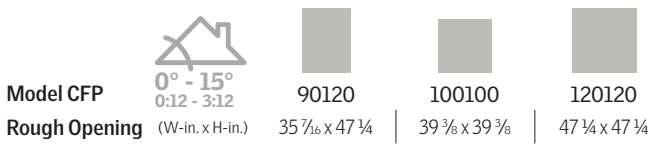
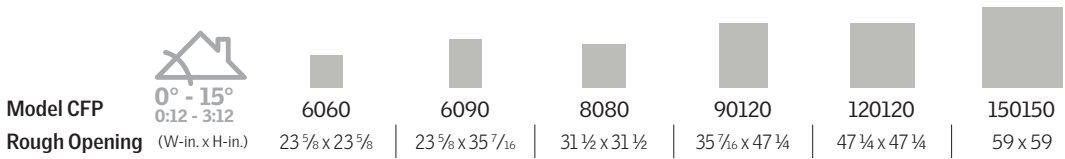
Fixed Skylight Sizes



Model FS sizes D26 and D06 fit perfectly between roof trusses.

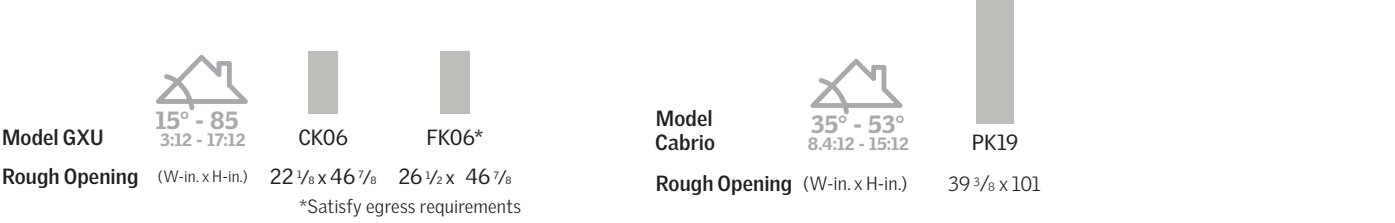
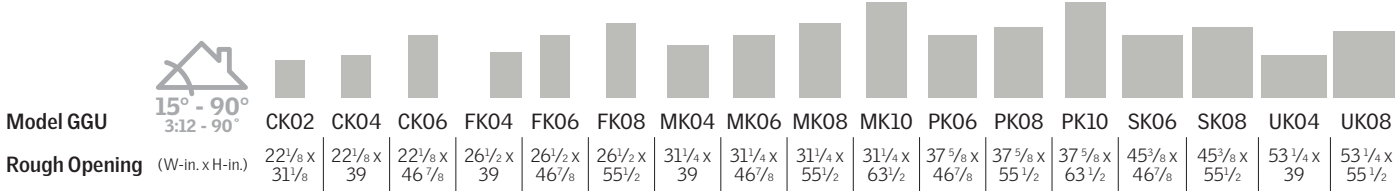
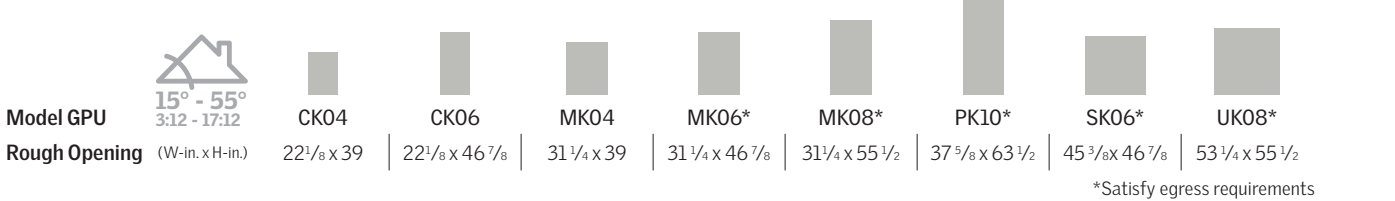


Flat Roof Skylight Sizes



Product Size Charts

Roof Window Sizes



Sun Tunnel® Skylight Sizes

Size Code	Model TLR	Model TCR	Model TMR		Model TGR		Model TMF	Model TGF	
	014	014	010	014	010	014	014	014	022
Overall Flashing	25 3/4 x 30 1/2	21 x 21	24 3/4 x 26	29 x 30 1/2	24 3/4 x 24 3/4	29 x 29	29 x 30 1/2	29 x 29	37 x 37
Rough Opening (ceiling)	14 3/4	14 3/4	10 3/4	14 3/4	10 3/4	14 3/4	14 3/4	14 3/4	22 3/4
Rough Opening (roof deck)	14 1/2 x 17 3/4	16 3/4 x 16 3/4	12 1/2 x 16	14 1/2 x 20	14 1/2 x 16	14 1/2 x 18	14 1/2 x 20	14 1/2 x 18	22 1/2 x 26
Minimum Installable Length	4	4	4	4	4	4	4	4	4
Maximum Recommended Install Length (ft.)	30	30	20	30	20	30	8	8	8

Testing Data

VSE/VSS Technical Information					
Glass	04	06**	08	10	9994
Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft²) differential pressure]					
l/s/m²	0.2	0.4	0.2	0.3	0.2
cfm/ft²	0.03	0.07	0.03	0.06	0.03
Water resistance @ 3.4 L/m²/min (5 USgal/ft²/hr)* [max. tested differential pressure with no leakage]					
Pascals	720	720	720	720	720
lbs/ft²	15	15	15	15	15
Thermal performance (Certified, complete unit values)					
VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified U-Factor, SHGC, and VT ratings listed in the NFRC Certified Products Directory.					
U-Factor	0.43	0.41	0.43	0.42	0.38
SHGC	0.23	0.23	0.22	0.23	0.23
VT	0.53	0.53	0.38	0.53	0.52
UV protection, %					
300-380 nm	99.9	99.9	99.9	99.9	99.9
Fading protection, % (Krochmann damage function)					
300-600 nm	83.1	84.6	88.4	83.2	85.1
Structural Performance [Performance Grade or DP] *					
Tested size	Uplift (lbs/ft²)				
S06	65	65	65	80	65
M08	105	65	105	85	105
C06	n.r.	n.r.	n.r.	90	n.r.
Tested size	Download (lbs/ft²)				
S06	370	300	370	860	370
M08	440	360	440	1090	440
C06	n.r.	n.r.	n.r.	1200	n.r.
* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)					
Structural performance ratings also apply to sizes smaller than the Tested Size VSE and VSS skylights are WDMA Hallmark certified: Product 426-H-670 (not applicable to copper-clad variants)					
** 06 variant is tested and WDMA Hallmark certified for Wind-borne debris impact, in accordance with ASTM E 1886 and ASTM E 1996. Rated for Wind Zone 3, Missile Level C, Cycle Pressure +50/-50					
04 glass: Tempered over laminated HS (0.030" interlayer) 06 glass: Tempered over laminated HS (0.090" interlayer) 08 glass: Same as 04, with white interlayer 10 glass: Tempered over laminated Tempered (0.030" interlayer) 9994 glass: Same as 04, with i89 coating on interior surface					

VS Technical Information						
Glass	04	06**	08	10	9993	9994
Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft²) differential pressure]						
l/s/m²	0.2	0.4	0.2	0.3	0.5	0.2
cfm/ft²	0.03	0.07	0.03	0.06	0.09	0.03
Water resistance @ 3.4 L/m²/min (5 USgal/ft²/hr)* [max. tested differential pressure with no leakage]						
Pascals	720	720	720	720	720	720
lbs/ft²	15	15	15	15	15	15
Thermal performance (Certified, complete unit values)						
VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified U-Factor, SHGC, and VT ratings listed in the NFRC Certified Products Directory.						
U-Factor	0.43	0.41	0.43	0.42	0.39	0.38
SHGC	0.23	0.23	0.22	0.23	0.23	0.23
VT	0.53	0.53	0.38	0.53	0.52	0.52
UV protection, %						
300-380 nm	99.9	99.9	99.9	99.9	95.3	99.9
Fading protection, % (Krochmann damage function)						
300-600 nm	83.1	84.6	88.4	83.2	81.6	85.1
Structural Performance [Performance Grade or DP] *						
Tested size	Uplift (lbs/ft²)					
S06	65	65	65	80	90	65
M08	105	65	105	85	120	105
C06	n.r.	n.r.	n.r.	90	n.r.	n.r.
Tested size	Download (lbs/ft²)					
S06	370	300	370	860	300	370
M08	440	360	440	1090	400	440
C06	n.r.	n.r.	n.r.	1200	n.r.	n.r.
* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)						
Structural performance ratings also apply to sizes smaller than the Tested Size VS skylights are WDMA Hallmark certified: Product 426-H-670 (not applicable to copper-clad variants)						
** 06 variant is tested and WDMA Hallmark certified for Wind-borne debris impact, in accordance with ASTM E 1886 and ASTM E 1996. Rated for Wind Zone 3, Missile Level C, Cycle Pressure +50/-50						
04 glass: Tempered over laminated HS (0.030" interlayer) 06 glass: Tempered over laminated HS (0.090" interlayer) 08 glass: Same as 04, with white interlayer 10 glass: Tempered over laminated Tempered (0.030" interlayer) 9994 glass: Same as 04, with i89 coating on interior surface						

Testing Data

FS Technical Information						
Glass	04	06**	08	10	9993	9994
Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft²) differential pressure]						
l/s/m²	0.1	0.1	0.1	0.1	0.2	0.1
cfm/ft²	0.01	0.01	0.01	0.01	0.04	0.01
Water resistance @ 3.4 L/m²/min (5 USgal/ft²/hr)* [max. tested differential pressure with no leakage]						
Pascals	720	720	720	720	720	720
lbs/ft²	15	15	15	15	15	15
Thermal performance (Certified, complete unit values)						
VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified U-Factor, SHGC, and VT ratings listed in the NFRC Certified Products Directory.						
U-Factor	0.44	0.41	0.44	0.42	0.39	0.38
SHGC	0.26	0.26	0.25	0.26	0.25	0.25
VT	0.60	0.60	0.42	0.60	0.59	0.59
UV protection, %						
300-380 nm	99.9	99.9	99.9	99.9	95.3	99.9
Fading protection, % (Krochmann damage function)						
300-600 nm	83.1	84.6	88.4	83.2	81.6	85.1
Structural Performance [Performance Grade or DP] *						
Tested size	Uplift (lbs/ft²)					
S06	60	65	70	65	45	70
M08	105	120	105	100	90	105
C06	n.r.	n.r.	n.r.	65	n.r.	n.r.
Tested size	Download (lbs/ft²)					
S06	160	300	160	720	400	160
M08	350	300	350	1180	400	350
C06	n.r.	n.r.	n.r.	1250	n.r.	n.r.
* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)						
Structural performance ratings also apply to sizes smaller than the Tested Size FS skylights are WDMA Hallmark certified: Product 426-H-672xx (not applicable to copper-clad variants)						
** 06 variant is tested and WDMA Hallmark certified for Wind-borne debris impact, in accordance with ASTM E 1886 and ASTM E 1996. Rated for Wind Zone 3, Missile Level C, Cycle Pressure +50/-50						
04 glass: Tempered over laminated HS (0.030" interlayer) 06 glass: Tempered over laminated HS (0.090" interlayer) 08 glass: Same as 04, with white interlayer 10 glass: Tempered over laminated Tempered (0.030" interlayer) 9994 glass: Same as 04, with i89 coating on interior surface						

VCE /VCS Technical Information					
Glass	04	06**	08	10	9994
Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft²) differential pressure]					
l/s/m²	0.1	0.1	0.1	<0.1	0.1
cfm/ft²	0.02	0.01	0.02	<0.01	0.02
Water resistance @ 3.4 L/m²/min (5 USgal/ft²/hr)* [max. tested differential pressure with no leakage]					
Pascals	720	720	720	720	720
lbs/ft²	15	15	15	15	15
Thermal performance (Certified, complete unit values)					
VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified U-Factor, SHGC, and VT ratings listed in the NFRC Certified Products Directory.					
U-Factor	0.52	0.48	0.52	0.49	0.47
SHGC	0.24	0.24	0.23	0.24	0.23
VT	0.55	0.55	0.39	0.55	0.54
UV protection, %					
300-380 nm	99.9	99.9	99.9	99.9	99.9
Fading protection, % (Krochmann damage function)					
300-600 nm	83.1	84.6	88.4	83.2	85.1
Structural Performance [Performance Grade or DP] *					
Tested size	Uplift (lbs/ft²)				
4646	45	60	45	40	45
2246	n.r.	n.r.	n.r.	65	n.r.
Tested size	Download (lbs/ft²)				
4646	230	230	230	620	230
2246	n.r.	n.r.	n.r.	1150	n.r.
* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)					
Structural performance ratings also apply to sizes smaller than the Tested Size VCE and VCS skylights are WDMA Hallmark certified: Product 426-H-695					
** 06 variant is tested and WDMA Hallmark certified for Wind-borne debris impact, in accordance with ASTM E 1886 and ASTM E 1996. Rated for Wind Zone 3, Missile Level C, Cycle Pressure +50/-50					
04 glass: Tempered over laminated HS (0.030" interlayer) 06 glass: Tempered over laminated HS (0.090" interlayer) 08 glass: Same as 04, with white interlayer 10 glass: Tempered over laminated Tempered (0.030" interlayer) 9994 glass: Same as 04, with i89 coating on interior surface					

Testing Data

VCM Technical Information							
Glass	04	05	06**	08	10	9993	9994
Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft²) differential pressure]							
l/s/m²	0.1	<0.1	0.1	0.1	<0.1	<0.1	0.1
cfm/ft²	0.02	<0.01	0.01	0.02	<0.01	<0.01	0.02
Water resistance @ 3.4 L/m²/min (5 USgal/ft²/hr)* [max. tested differential pressure with no leakage]							
Pascals	720	720	720	720	720	720	720
lbs/ft²	15	15	15	15	15	15	15
Thermal performance (Certified, complete unit values)							
VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified U-Factor, SHGC, and VT ratings listed in the NFRC Certified Products Directory.							
U-Factor	0.52	0.53	0.48	0.52	0.49	0.48	0.47
SHGC	0.24	0.24	0.24	0.23	0.24	0.23	0.23
VT	0.55	0.56	0.55	0.39	0.55	0.54	0.54
UV protection, %							
300-380 nm	99.9	95.2	99.9	99.9	99.9	95.3	99.9
Fading protection, % (Krochmann damage function)							
300-600 nm	83.1	79.2	84.6	88.4	83.2	81.6	85.1
Structural Performance [Performance Grade or DP] *							
Tested size	Uplift (lbs/ft²)						
4646	45	30	60	45	40	30	45
2246	n.r.	n.r.	n.r.	n.r.	65	n.r.	n.r.
Tested size	Download (lbs/ft²)						
4646	230	230	230	230	620	230	230
2246	n.r.	n.r.	n.r.	n.r.	1150	n.r.	n.r.
* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/ A440-11 (NAFS 2011)							
Structural performance ratings also apply to sizes smaller than the Tested Size VCM skylights are WDMA Hallmark certified: Product 426-H-695							
** 06 variant is tested and WDMA Hallmark certified for Wind-borne debris impact, in accordance with ASTM E 1886 and ASTM E 1996.							
Rated for Wind Zone 3, Missile Level C, Cycle Pressure +50/-50							
04 glass: Tempered over laminated HS (0.030" interlayer) 05 glass: Tempered over tempered 06 glass: Tempered over laminated HS (0.090" interlayer) 08 glass: Same as 04, with white interlayer 10 glass: Tempered over laminated Tempered (0.030" interlayer) 9993 glass: Same as 05, with i89 coating on interior surface 9994 glass: Same as 04, with i89 coating on interior surface							

FCM Technical Information								
Glass	04/14	05/15	06/16**	08	10	29/30	9993	9994
Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft²) differential pressure]								
l/s/m²	0.2	<0.1	<0.1	0.2	0.1	0.3	<0.1	0.2
cfm/ft²	0.03	<0.01	<0.01	0.03	0.01	0.05	<0.01	0.03
Water resistance @ 3.4 L/m²/min (5 USgal/ft²/hr)* [max. tested differential pressure with no leakage]								
Pascals	720	720	720	720	720	720	720	720
lbs/ft²	15	15	15	15	15	15	15	15
Thermal performance (Certified, complete unit values)								
VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified U-Factor, SHGC, and VT ratings listed in the NFRC Certified Products Directory.								
U-Factor	0.48	0.49/0.45	0.46	0.48	0.47	0.38	0.43	0.42
SHGC	0.27/0.18	0.27/0.18	0.28/0.19	0.27	0.28	0.25	0.27	0.27
VT	0.64/0.38	0.63/0.38	0.62/0.38	0.45	0.63	0.58	0.58	0.58
UV protection, %								
300-380 nm	99.9	95.2	99.9	99.9	99.9	95.2	95.3	99.9
Fading protection, % (Krochmann damage function)								
300-600 nm	83.1	79.2	84.6	88.4	83.2	79.2	81.6	85.1
Structural Performance [Performance Grade or DP] *								
Tested size	Uplift (lbs/ft²)							
4672	80	n.r.	n.r.	80	n.r.	n.r.	n.r.	80
4646	120	140	80	120	135	60	140	120
2270	100	n.r.	n.r.	100	n.r.	n.r.	n.r.	100
Tested size	Download (lbs/ft²)							
4672	70	n.r.	n.r.	70	n.r.	n.r.	n.r.	70
4646	250	100	100	250	970	75	100	250
2270	200	n.r.	n.r.	200	n.r.	n.r.	n.r.	200
* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)								
Structural performance ratings also apply to sizes smaller than the Tested Size FCM skylights are WDMA Hallmark certified: Product 426-H-701								
** 06/16 variant is tested and WDMA Hallmark certified for Wind-Borne debris impact, Florida HVHZ : Large Missile Level D, Cycle Pressure +50/-50, tested per TAS 201, 202 and 203 (Wind Zone 4) Large Missile Level C, Cycle Pressure +50/-50, tested per ASTM E 1886 and ASTM E 1996								
04/14 glass: Tempered over laminated HS (0.030" interlayer) - Low-E366 (04) / Low-E340 (14)								
05/15 glass: Tempered over tempered; 05C has a smaller pane gap - Low-E366 Low-E340 (15)								
06/16 glass: Tempered over laminated HS (0.090" interlayer) - Low-E366 (06) / Low-E340 (16)								
08 glass: Same as 04, with white interlayer 10 glass: Tempered over laminated Tempered (0.030" interlayer) 29 glass: Tempered over tempered over laminated HS (0.030" interlayer) 30 glass: Tempered over tempered over tempered 9993 glass: Same as 05, with i89 coating on interior surface 9994 glass: Same as 04, with i89 coating on interior surface								
Note: The FCM 4646 (or smaller) 06 is the only VELUX skylight currently qualified for use in Florida HVHZ (High Velocity Hurricane Zone).								

Testing Data

QPF Technical Information						
Glass	04/14	05/15	06/16**	08	9993	9994
Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft²) differential pressure]						
l/s/m²	0.5	0.3	0.4	0.5	0.3	0.5
cfm/ft²	0.09	0.06	0.08	0.09	0.06	0.09
Water resistance @ 3.4 L/m²/min (5 USgal/ft²/hr) * [max. tested differential pressure with no leakage]						
Pascals	580	720	720	580	720	580
lbs/ft²	12	15	15	12	15	12
Thermal performance (Certified, complete unit values)						
QPF Skylights are rated at 20° and labeled with NFRC certified (VEL-N-17) U-Factor, SHGC, and VT ratings listed in the NFRC Certified Products Directory						
U-factor (Btu/[hr*ft²*F°]) @20° slope	0.42	0.43	0.40	0.42	0.38	0.37
SHGC	0.25/0.16	0.24/0.16	0.25/0.17	0.24	0.24	0.24
VT	0.57/0.34	0.57/0.34	0.57/0.34	0.40	0.56	0.56
UV protection, %						
300-380 nm	99.9	95.2	99.9	99.9	95.3	99.9
Fading protection, % (Krochmann damage function)						
300-380 nm	83.1	79.2	84.6	88.4	81.6	85.1
Structural Performance [Performance Grade or DP] *						
Tested size	Uplift (lbs/ft²)					
4646	80	80	100	80	80	80
Tested size	Download (lbs/ft²)					
4646	320	300	300	320	300	320
* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)						
Structural performance ratings also apply to sizes smaller than the Tested Size						
QPF skylights are certified per WDMA Hallmark: Product 426-H-677 Florida Product Approval FL-13300 Texas Dept. of Insurance Reports: SK-03 and SK-14						
**06 and 16 variants are tested and certified per WDMA Hallmark for Wind-borne debris, in accordance with ASTM E 1886 and ASTM E 1996. Rated for Wind Zone 3, Missile Level C, Cycle Pressure +50/-50						
04 and 14 glass: Tempered over laminated HS (0.030" interlayer) – Low-E366 (04) / Low-E340 (14) 05 and 15 glass: Tempered over tempered – Low-E366 (05) / Low-E340 (15) 06 and 16 glass: Tempered over laminated HS (0.090" interlayer) – Low-E366 (06) / Low-E340 (16) 08 glass: Same as 04, with white interlayer 10 glass: Temp. over laminated temp. (0.030" interlayer) 9993 glass: Same as 05, with i89 coating on interior surface 9994 glass: Same as 04, with i89 coating on interior surface						

E-Class and GSM Technical Information								
Model	EF 04	EF 05	EFHR 06**	EV 04	EV 05	EVMS 04	EVMS 05	GSM 99 100
Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft²) differential pressure]								
l/s/m²	<0.1	<0.1	0.05	0.1	0.1	0.1	0.1	<0.1
cfm/ft²	<0.01	<0.01	0.01	0.01	0.01	0.01	0.01	<0.01
Water resistance @ 3.4 L/m²/min (5 USgal/ft²/hr) * [max. tested differential pressure with no leakage]								
Pascals	958	958	760	720	720	720	720	580
lbs/ft²	20	20	15.75	15	15	15	15	12
Thermal performance (Certified, complete unit values)								
VELUX Glass Skylights are rated at 20° and labeled with NFRC certified U-Factor, SHGC, and VT ratings listed in the NFRC Certified Products Directory								
U-factor (Btu/[hr*ft²*F°]) @20° slope	0.48	0.46	0.45	0.48	0.49	0.48	0.49	0.51
SHGC	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25
VT	0.57	0.59	0.57	0.57	0.58	0.57	0.58	0.58
Structural Performance [Performance Grade or DP] *								
Tested size	Uplift (lbs/ft²)							
4646	90	90	80**	90	90	90	90	-
5296	-	-	-	-	-	-	-	80
Tested size	Download (lbs/ft²)							
4646	90	90	80**	90	90	90	90	-
5296	-	-	-	-	-	-	-	80
* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011) - except EFHR								
** EFHR Tested in accordance with ASTM E283, ASTM E547, ASTM E330, ASTM E1996, ASTM E1886 TAS 201-94 Large Missile Impact Test, Level D, Wind Zone 4 TAS 202 -94 Uniform Static Air Pressure, ±80.0psf design pressure, 9.0psf water penetration (safety factor of 2) TAS 203-94 Cyclic Pressure loading ±80.0psf design pressure								
Structural performance ratings also apply to sizes smaller than the Tested Size EF skylights are AAMA certified.								
04 glass: (EML) Clear Tempered E366 (#2) over laminated HS (0.030" PVB interlayer) 05 glass: (EMT) Clear Tempered E366 (#2) over Clear Tempered 06 glass: Clear Tempered SB70XL (2#2) over laminated HS (0.090" SG interlayer) 99 100 glass: Clear SB70XL (#2) Tempered over Clear laminated HS (0.060" PVB interlayer)								

Testing Data

Shaded A21 Skylights Technical Information								
Model	VS/VSE/VSS	FS	FCM		VCM/VCE/VCS		QPF	
Glass	04	04	04	05	04	05	04	05
Skylight with fully open shade - U-factor: Btu/[hr*ft²*F°]								
White Venetian	0.42	0.43	0.46	0.47	0.52	0.52	0.42	0.43
Room-Darkening	0.42	0.43	0.45	0.46	0.51	0.51	0.42	0.42
Light-Filtering	0.42	0.43	0.46	0.46	0.51	0.51	0.42	0.42
Skylight with fully closed shade - U-factor: Btu/[hr*ft²*F°]								
White Venetian	0.29	0.26	0.38	0.38	0.37	0.37	0.29	0.29
Room-Darkening	0.29	0.26	0.42	0.42	0.41	0.41	0.33	0.33
Light-Filtering	0.33	0.31	0.42	0.42	0.41	0.41	0.33	0.33
Skylight with fully open shade - SHGC								
White Venetian	0.20	0.24	0.21	0.21	0.20	0.20	0.21	0.21
Pleated	0.21	0.24	0.21	0.21	0.21	0.21	0.22	0.22
Skylight with fully closed shade - SHGC								
White Venetian	0.12	0.14	0.13	0.13	0.12	0.12	0.13	0.13
Room-Darkening	0.17	0.19	0.17	0.17	0.18	0.18	0.18	0.18
Light-Filtering	0.24	0.27	0.25	0.25	0.25	0.25	0.26	0.26
Skylight with fully open blinds - VT								
White Venetian	0.45	0.51	0.48	0.48	0.46	0.46	0.48	0.48
Pleated	0.48	0.54	0.48	0.48	0.49	0.49	0.51	0.51
(VT not rated for fully closed blinds)								

Residential Sun Tunnel Skylights Technical Information								
Model	TLR	TSR	TCR	TGF 022	TGF 014	TGR	TMF	TMR/THR
Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft²) differential pressure]								
l/s/m²	0.1	0.3	0.5	0.2				
cfm/ft²	0.01	0.01	0.09	0.04				
Water resistance @ 3.4 L/m²/min (5 USgal/ft²/hr)* [max. tested differential pressure with no leakage]								
Pascals	720	720	720	720				
lbs/ft²	15	15	15	15				
Thermal performance (Certified, complete unit ratings from physical testing)								
The following VELUX® Sun Tunnel skylights are labeled with certified U-Factors with "Insulation at Ceiling", SHGC, and VT _{annual} ratings, as listed in the NFRC Certified Products Directory								
U-factor: Btu/[hr*ft²°F]								
Base model	0.51	n.r.	0.53	0.42	0.44	0.53	0.44	0.53
w/energy kits	0.36	n.r.	0.37	0.27	0.34	0.37	0.34	0.37
SHGC: US ratings shown for models with E0 energy kits								
Base model	0.46	n.r.	0.46	0.35	0.30	0.46	0.30	0.46
w/energy kits	n.r.	n.r.	0.26	0.30	0.22	0.26	0.22	0.26
Annual Average Visible Transmittance (VT _{annual})								
Base model	0.36	n.r.	0.42	0.32	0.22	0.42	0.22	0.42
w/energy kits	n.r.	n.r.	0.27	0.28	0.16	0.27	0.16	0.27
Structural Performance [Performance Grade or DP in psf: NAFS-11 (NAFS-08)]* [Note: 1 psf = 47.88 Pa]								
Dome type **	Uplift (negative)							
Acrylic or Polycarbonate	n.a.	180 (135) Acrylic only	165 (125)	125 (90)				
Temp. Glass	245 (170)	n.a.						
Dome type **	Download (positive)							
Acrylic or Polycarbonate	n.a.	200 (200) Acrylic only	300 (200)	300 (200)				
Temp. Glass	150	n.a.						
* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011) VELUX® Sun Tunnel skylights are WDMA Hallmark certified as indicated above and below (See www.wdma.com , Hallmark Nos. 426-H-626,-693,-705,-706)								
**** VELUX® Sun Tunnel skylights with Polycarbonate domes are tested for Wind-Borne debris impact and pressure cycling, in accordance with ASTM E 1886-05 and ASTM E 1996-05. Rated for Wind Zone 3, Missile Level C, Cycle Pressure +50/-50 (The following model do not have Polycarbonate domes - TLR)								

Testing data notes

a) Production samples structurally tested and labeled in accordance with one or more of: AAMA/WDMA/CSA 101/I.S.2/A440 (NAFS), various ASTM methods.

b) Thermal and optical performance data are verified by accredited entities.

c) Most variants with WDMA Hallmark certification are also recognized under Uniform-ES report #ER 0199 (IAPMO-ES).

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 America LLC offers the choice of laminated or tempered glass for the inside pane. Laminated glass is a combination of two or more glass sheets with one or more interlayers of plastic (PVB). In case of breakage, the interlayer is designed to hold the fragments together. Types 04, 06, 08 and 10 glass are the standard laminated glass options. Type 05 glass is the only standard tempered glass option. 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 OR GLASS RETENTION SCREENING IS REQUIRED IN YOUR APPLICATION.

VELUX America LLC
450 Old Brickyard Road
PO Box 5001
Greenwood, SC 29648-5001
Tel 1-800-888-3589
Fax 1-864-943-2631
veluxusa.com
whyskylights.com

Bringing light to life™

Non-dealer disclaimer

List prices shown do not include shipping and handling cost, delivery cost by your local VELUX Dealer or applicable sales tax. Final unit pricing can be 10–15%+ higher depending on your location, services provided and final delivery of the skylight to the job site. Many of the skylights do not include flashings or blinds. These can be purchased separately.

All VELUX skylights, roof windows, Sun Tunnel Skylights, flashing kits and blinds must be purchased through a qualified VELUX dealer. Please see the "Where To Buy" section of veluxusa.com website for a list of VELUX dealers near you.

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. Impact glass and comfortplus glass are all types of laminated glass. Comfort glass is a type of tempered glass. 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.

VELUX®

The VELUX Group creates better living environments with daylight and fresh air through the roof. The VELUX product program contains a wide range of roof windows and skylights, along with solutions for flat roofs. The Group also supplies many types of decoration and sun screening, roller shutters, installation products, products for remote control for installation in roofs. The VELUX Group, which has manufacturing companies in 11 countries and sales companies in just under 40 countries, represents one of the strongest brands in the global building materials sector and its products are sold in most parts of the world. The VELUX Group has about 10,000 employees and is owned by VKR Holding A/S, a limited company wholly owned by foundations and family. For more details, visit velux.com.

XUS 20183-0719 • ©2019 VELUX Group • VELUX®, VELUX logo are registered trademarks • VELUX Sun Tunnel is a trademark of VELUX Group, HGTV, HGTV Smart Home, HGTV Smart Home Giveaway and their associated logos are trademarks of Scripps Networks, LLC. Used with permission; all rights reserved.