

**VELUX**<sup>®</sup>

The No Leak Skylight™

# Residential Skylights

HGTV  
**SMART  
HOME**  
2018  
PROUD SPONSOR

*Bringing light to life*<sup>™</sup>

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### Testing data

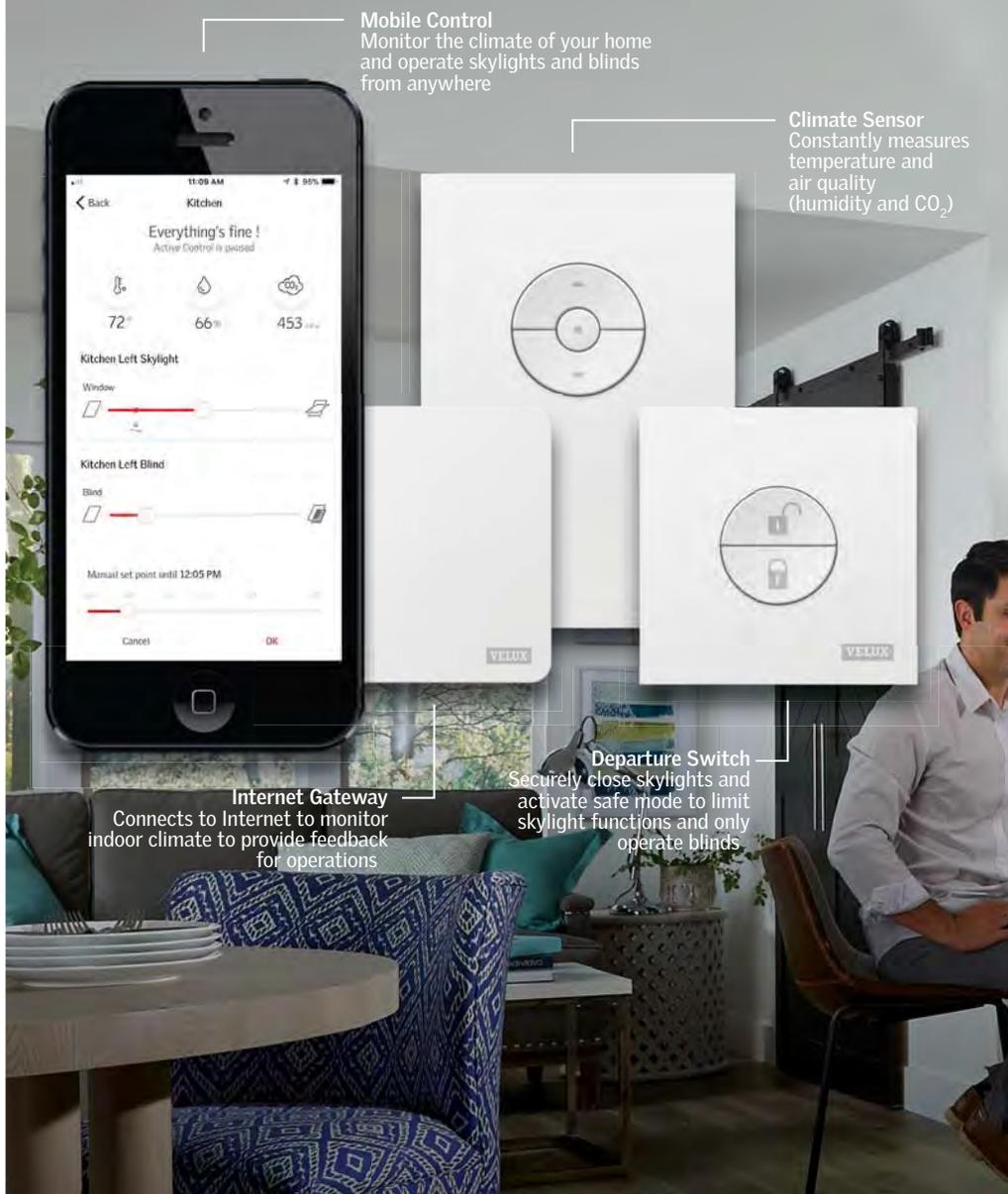
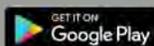
- 63 Testing Data

# A window into a smarter, healthier home.

## VELUX ACTIVE indoor climate control

Whether you're at home or away, VELUX ACTIVE 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 and automatically adjust your skylights and blinds for ideal temperature and air quality.

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



**Mobile Control**  
Monitor the climate of your home and operate skylights and blinds from anywhere

**Climate Sensor**  
Constantly measures temperature and air quality (humidity and CO<sub>2</sub>)

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

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



#### Daily ventilation

Smart sensors (CO<sub>2</sub>, humidity, temperature) control your VELUX skylights to ensure a healthier indoor climate by automatically ventilating 2-3 times a day.



#### Smart heat protection

VELUX blinds operate proactively based on local weather forecast information.

Operates with factory-installed solar blind



#### Stay in control

Operate your VELUX skylights and blinds from your smartphone.



#### Say the word

Use voice control assistance to operate your VELUX skylights and blinds.



#### Easy departure

Put your VELUX ACTIVE products in safe mode with just one tap.

## VELUX ACTIVE

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

with  
**NETATMO**

# The logical choice for any skylight installation

See how easy it is to upgrade to a Solar-Powered "Fresh Air" Skylight

Considering adding daylight and fresh air to your home? See how easy and affordable it is. With a 30% federal tax credit, homeowners receive an average of \$850 on product and installation.



Considering just a Fixed Skylight?

Upgrade from a fixed skylight to a Solar-Powered "Fresh Air" Skylight with all the features for around **\$100 after tax credit eligibility!**\*



Considering just a Manual "Fresh Air" Skylight?

Upgrade from a Manual "Fresh Air" Skylight to a Solar-Powered "Fresh Air" Skylight with all the features and **save around \$140 after tax credit eligibility!**\*

\* For more information, visit: [veluxusa.com/taxcredits](http://veluxusa.com/taxcredits)



Deck-Mounted Solar-Powered "Fresh Air" Skylight



Curb-Mounted Solar-Powered "Fresh Air" Skylight



## Clean, Quiet & Safe Glass



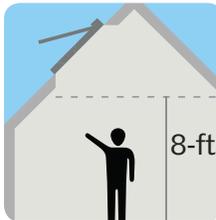
### Clean

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



### Quiet

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



### Safe

VELUX recommends and building codes require laminated glass for out of reach applications



**New**

## VELUX ACTIVE is the new all-in-one solution for automatic control of indoor climate.



Whether you're at home or away, VELUX ACTIVE 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 and automatically adjust your skylights and blinds for ideal temperature and air quality.



Shift Your Outlook.



It's time to take a fresh look at your ceiling. With added design space, it's more than a roof over your head. It's your fifth wall. With the touch of a button, VELUX skylights transform spaces with fresh air and daylight from above, so you can aim higher than the average wall. Learn more at [whyskylights.com](http://whyskylights.com).

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HGTV  
**SMART HOME**  
2018  
A HOLIDAY SPECIAL

**VELUX®**

Skylights

# 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.

This untapped design opportunity has the power to completely transform spaces from top to bottom. The Fifth Wall allows you to set your sights higher than the average wall. That's why skylights are a must-have on your home renovation to-do list.

When in need of a fresh perspective, all you have to do is look up.

# Choosing the right glass

Clean, Quiet & Safe Glass

## Recommended for out-of-reach applications

10-year hail breakage warranty  
For complete information visit [veluxusa.com](http://veluxusa.com)

### Clean



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

### Quiet



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

### Safe



VELUX recommends and building codes require laminated glass for out-of-reach applications

### Clean, Quiet & Safe Glass (xx04)

#### Dual pane laminated glass

Standard on: VSS, VCS, VSE, VCE skylights

When Neat® is applied to LowE glass, it combines the ultimate in low maintenance with the best energy-conserving LowE glass on the planet. So homes stay warmer in winter, cooler in summer. Neat® LowE conserves energy year-round, too, saving homeowners up to 25% annually.



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



#### Impact (xx06)

Available on: VSS, VSE, VCS, VCE, VS, VCM, FS, FCM, QPF



#### White laminated (xx08)

Available on: VSE, VCE, VS, VCM, FS, FCM, QPF



#### Snowload (xx10)

Available on: VSE, VCE, VS, VCM, FS, FCM, VSS

## Tempered Glass - Recommended for in-reach applications

### Tempered Glass (xx05)

If your skylight is within reach, our tempered glass is dual-paned, triple-coated with LowE3, dual-sealed and injected with argon gas. This provides excellent energy efficiency and thermal performance for year-round comfort.



Dual pane tempered glass

# ENERGY STAR®

Use of ENERGY STAR® products

**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). ENERGY STAR certified fenestration products must have their U-factor, Visible Transmittance, and Solar Heat Gain Coefficient ratings independently tested and approved under the FenStar<sup>SM</sup> Certification Program of the National Fenestration Rating Council (NFRC) to qualify.

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

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

Visit: [energystar.gov](http://energystar.gov) for more information.



## Code compliance

### Performance requirements

VELUX offers a broad array of skylights and Sun Tunnel skylights 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 that are based on the above (and earlier) codes.

In addition, 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, with one exception: copper-clad versions.

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.



# Solar-Powered "Fresh Air" Skylights

Deck-Mounted - VSS  
Curb-Mounted - VCS

**The  
No Leak  
Skylight**

No Leak Promise  
No Worries

**30%**

Eligible  
federal tax credit  
on product and  
installation\*



See page 2



\*For more information visit: [veluxusa.com/taxcredits](http://veluxusa.com/taxcredits)

**Fifth Wall  
Design Tip**

transform ceiling wall  
with fun wallpaper



# VELUX ACTIVE is the new all-in-one solution system for automatic control of indoor climate.

Whether you're at home or away, VELUX ACTIVE 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 and automatically adjust your skylights and blinds for ideal temperature and air quality.

Monitor indoor  
climate temperature,  
humidity, and CO<sub>2</sub>

Sliders to  
open/close blinds

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

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

**Climate Sensor**  
Constantly measures  
temperature and air quality  
(humidity and CO<sub>2</sub>)



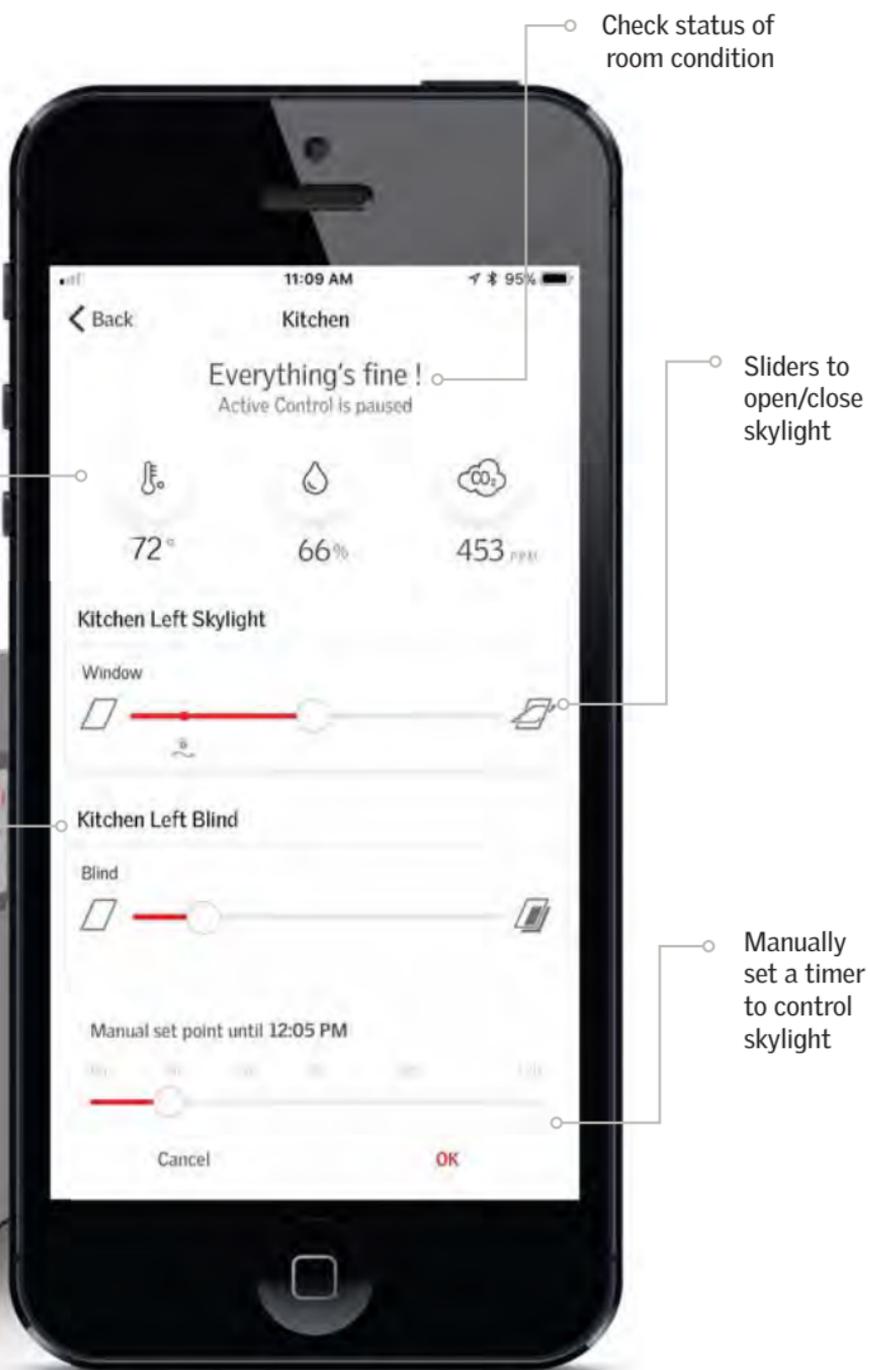
## VELUX ACTIVE

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

with  
**NETATMO**



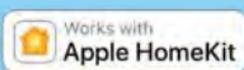
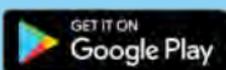
Download your VELUX ACTIVE app now for a smarter, healthier home.



New

# A window into a smarter, healthier home.

VELUX ACTIVE  
indoor climate control



# Solar-Powered "Fresh Air" Skylights

Deck-Mounted - VSS  
Curb-Mounted - VCS

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

**30%**  
Eligible federal tax credit on product and installation\*



See page 2



KLI 110 Remote



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



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

## Benefits:

- With a 30% federal tax credit, homeowners receive an average of \$850\* in savings with federal tax credit eligibility.
- Features a solar panel that captures any available daylight to recharge a highly efficient, fully concealed, battery-powered operator and control system.
- Replace a fixed or manual skylight easily because no wiring is required.
- KLI 110 remote and insect screen included with skylight.
- Available in deck and curb-mounted applications.

\*For more information visit: [veluxusa.com/taxcredits](http://veluxusa.com/taxcredits)

Model VSS	 14° - 85° 3:12 - 137:12										
Rough opening (W-in. x H-in.)		21 x 26 <sup>7</sup> / <sub>8</sub>	21 x 37 <sup>7</sup> / <sub>8</sub>	21 x 45 <sup>3</sup> / <sub>4</sub>	21 x 54 <sup>7</sup> / <sub>16</sub>	30 <sup>1</sup> / <sub>16</sub> x 30	30 <sup>1</sup> / <sub>16</sub> x 37 <sup>7</sup> / <sub>8</sub>	30 <sup>1</sup> / <sub>16</sub> x 45 <sup>3</sup> / <sub>4</sub>	30 <sup>1</sup> / <sub>16</sub> x 54 <sup>7</sup> / <sub>16</sub>	44 <sup>1</sup> / <sub>4</sub> x 26 <sup>7</sup> / <sub>8</sub>	44 <sup>1</sup> / <sub>4</sub> x 45 <sup>3</sup> / <sub>4</sub>
Model VCS	 0° - 60° 0:12 - 20:12										
Outside curb (W-in. x H-in.)		25 <sup>1</sup> / <sub>2</sub> x 25 <sup>1</sup> / <sub>2</sub>	25 <sup>1</sup> / <sub>2</sub> x 37 <sup>1</sup> / <sub>2</sub>	25 <sup>1</sup> / <sub>2</sub> x 49 <sup>1</sup> / <sub>2</sub>	33 <sup>1</sup> / <sub>2</sub> x 33 <sup>1</sup> / <sub>2</sub>	33 <sup>1</sup> / <sub>2</sub> x 49 <sup>1</sup> / <sub>2</sub>	37 <sup>1</sup> / <sub>2</sub> x 37 <sup>1</sup> / <sub>2</sub>	49 <sup>1</sup> / <sub>2</sub> x 25 <sup>1</sup> / <sub>2</sub>	49 <sup>1</sup> / <sub>2</sub> x 49 <sup>1</sup> / <sub>2</sub>		

**Fifth Wall  
Design Tip**

transform dark bonus  
rooms with light



# Electric "Fresh Air" Skylights

Deck-Mounted - VSE  
Curb-Mounted - VCE

**The  
No Leak  
Skylight**

No Leak Promise  
No Worries



See page 2





**Fifth Wall Design Tip**

illuminate the geometry of structural beams

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Monitor indoor climate temperature, humidity, and CO2

Sliders to open/close blinds

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

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

**Climate Sensor**  
Constantly measures temperature and air quality (humidity and CO<sub>2</sub>)



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## VELUX ACTIVE

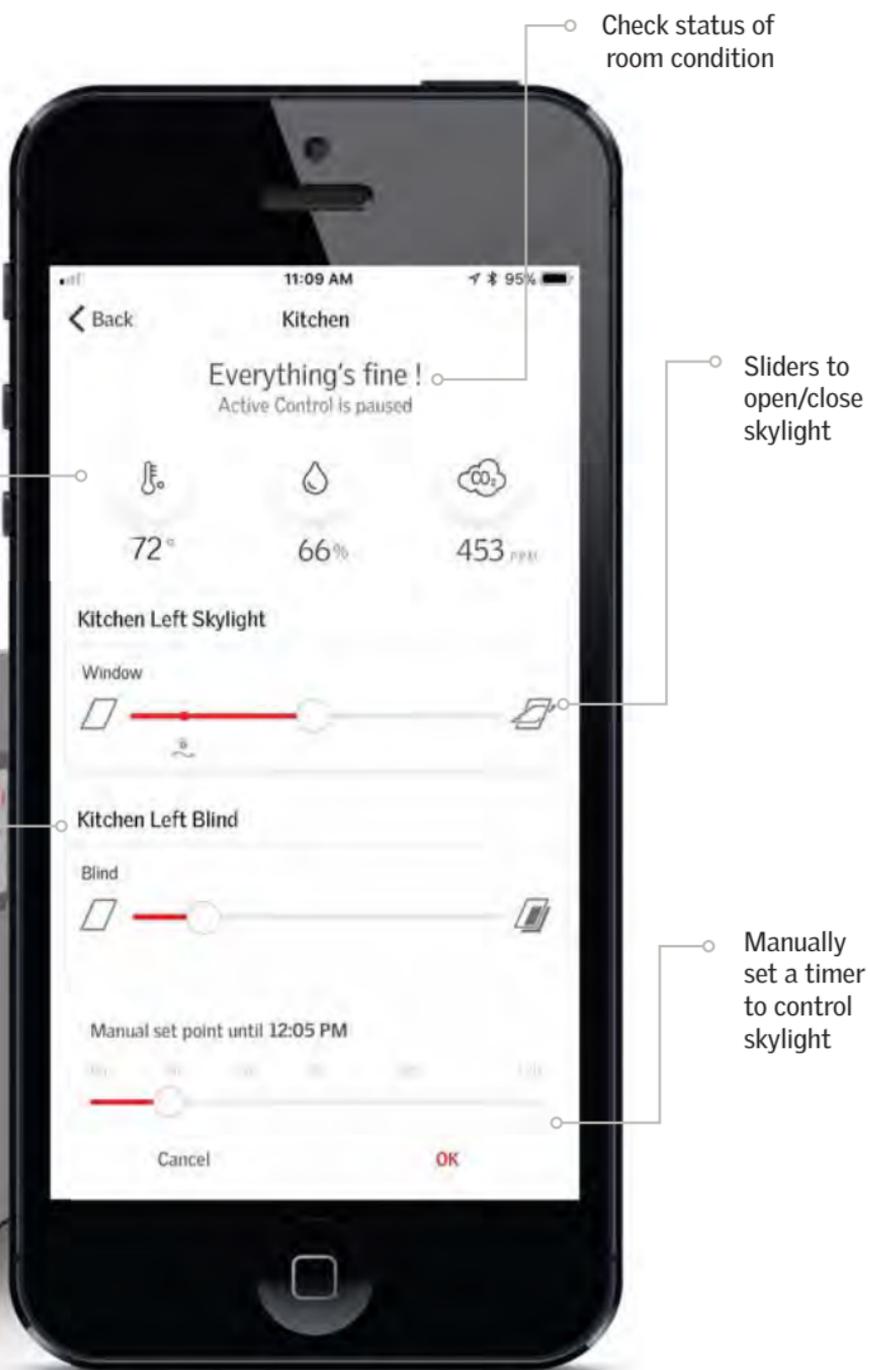
Smart sensor-based operation of your VELUX skylights, and blinds.

with  
**NETATMO**

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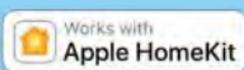
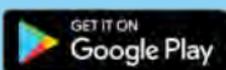
Download your VELUX ACTIVE app now for a smarter, healthier home.



New

# A window into a smarter, healthier home.

VELUX ACTIVE  
indoor climate control



# Electric "Fresh Air" Skylights

Deck-Mounted - VSE  
Curb-Mounted - VCE

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

**VELUX ACTIVE COMPATIBLE**  
See page 2



KLI 110 Remote



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



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

## Benefits:

- A pre-installed concealed motor and control system powered by VELUX INTEGRA® allows you to enjoy the one-touch convenience of a remote control.
- With the integrated rain sensor, electric skylights will close automatically in case of inclement weather.
- Pre-mounted Pick&Click!™ system brackets make the installation of sunscreen blinds a snap.
- Factory pre-finished white frames and sashes provide a high quality finish that eliminates the need for secondary, high cost trips by a painter.
- KLI 110 remote and insect screen included with skylight.

Model VSE										
	14° - 85° 3:12 - 137:12	C01	C04	C06	C08	M04	M06	M08	S01	S06
Rough opening (W-in. x H-in.)		21 x 26 <sup>7</sup> / <sub>8</sub>	21 x 37 <sup>7</sup> / <sub>8</sub>	21 x 45 <sup>3</sup> / <sub>4</sub>	21 x 54 <sup>7</sup> / <sub>16</sub>	30 <sup>1</sup> / <sub>16</sub> x 37 <sup>7</sup> / <sub>8</sub>	30 <sup>1</sup> / <sub>16</sub> x 45 <sup>3</sup> / <sub>4</sub>	30 <sup>1</sup> / <sub>16</sub> x 54 <sup>7</sup> / <sub>16</sub>	44 <sup>1</sup> / <sub>4</sub> x 26 <sup>7</sup> / <sub>8</sub>	44 <sup>1</sup> / <sub>4</sub> x 45 <sup>3</sup> / <sub>4</sub>

Model VCE								
	0° - 60° 0:12 - 20:12	2222	2234	2246	3030	3046	3434	4646
Outside curb (W-in. x H-in.)		25 <sup>1</sup> / <sub>2</sub> x 25 <sup>1</sup> / <sub>2</sub>	25 <sup>1</sup> / <sub>2</sub> x 37 <sup>1</sup> / <sub>2</sub>	25 <sup>1</sup> / <sub>2</sub> x 49 <sup>1</sup> / <sub>2</sub>	33 <sup>1</sup> / <sub>2</sub> x 33 <sup>1</sup> / <sub>2</sub>	33 <sup>1</sup> / <sub>2</sub> x 49 <sup>1</sup> / <sub>2</sub>	37 <sup>1</sup> / <sub>2</sub> x 37 <sup>1</sup> / <sub>2</sub>	49 <sup>1</sup> / <sub>2</sub> x 49 <sup>1</sup> / <sub>2</sub>



**Fifth Wall  
Design Tip**

create serene spaces  
with diffused light  
from above

# Manual "Fresh Air" Skylights

Deck-Mounted - VS  
Curb-Mounted - VCM

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





# Manual "Fresh Air" Skylights

Deck-Mounted - VS  
Curb-Mounted - VCM

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

**NEW VS & VCM Energy Performance Model**



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



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

## UPGRADE

to the Energy Performance Model

Boost energy performance up to 40%

Reduce energy dependency and maximize efficiency by automatically controlling blind position based on seasons.



Includes:



Eligible for  
**30%**  
Federal Tax  
Credit\*



See page 36

## Benefits:

- Factory pre-finished white frames and sashes provide a high quality finish that eliminates the need for secondary, high cost trips by a painter.
- Pre-mounted Pick&Click!™ system brackets make the installation of sunscreen blinds a snap.
- Replacement kits (ZZZ 238) are available and sold separately for all VS skylights. The kit allows the installer to use a standard size VELUX VS on a non-standard opening while minimizing the amount of interior trim work needed. For more information, see page 49.

Models VS & VS Energy Performance

Model	21x26 7/8	21x37 7/8	21x45 3/4	21x54 7/16	30 1/16 x 30	30 1/16 x 37 7/8	30 1/16 x 45 3/4	30 1/16 x 54 7/16	44 1/4 x 26 7/8	44 1/4 x 45 3/4
Rough opening (W-in. x H-in.)	21 x 26 7/8	21 x 37 7/8	21 x 45 3/4	21 x 54 7/16	30 1/16 x 30	30 1/16 x 37 7/8	30 1/16 x 45 3/4	30 1/16 x 54 7/16	44 1/4 x 26 7/8	44 1/4 x 45 3/4

Models VCM & VCM Energy Performance

Model	2222	2234	2246	3030	3046	3434	4646
Outside curb (W-in. x H-in.)	25 1/2 x 25 1/2	25 1/2 x 37 1/2	25 1/2 x 49 1/2	33 1/2 x 33 1/2	33 1/2 x 49 1/2	37 1/2 x 37 1/2	49 1/2 x 49 1/2



**Fifth Wall  
Design Tip**

bring in cool breezes  
with Fresh Air  
Skylights

# Fixed Skylights

Deck-Mounted - FS  
Curb-Mounted - FCM  
Self-Flashed - QPF

## The No Leak Skylight

No Leak Promise  
No Worries



**Fifth Wall  
Design Tip**

accent ceiling  
wall with paint  
and light



# Fixed Skylights

Deck-Mounted - FS

**NEW FS Energy Performance Model**

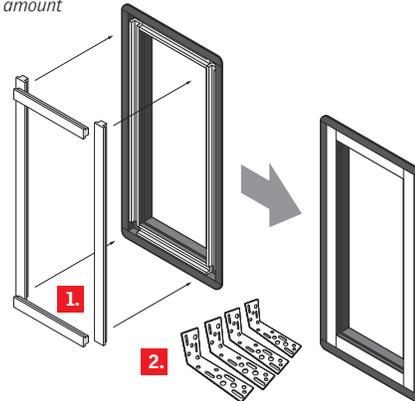
**The No Leak Skylight**  
No Leak Promise  
No Worries



### Replacement Kits for FS and VS ( ZZZ 238)

This replacement kit will be available for all sizes of VS and most FS skylights. This will allow the installer to use a standard size VELUX VS or FS skylight on a non-standard opening while minimizing the amount of interior trim work needed.

1. (4) pre-cut drywall groove filler pieces minimizes interior trim work needed.
2. (4) structural mounting brackets allows skylight to be used in applications with an oversized rough opening.



Fixed Deck-Mounted  
No Leak Skylight - FS

### UPGRADE

to the Energy Performance Model

Boost energy performance up to 40%

Reduce energy dependency and maximize efficiency by automatically controlling blind position based on seasons.



### Includes:



Eligible for  
**30%**  
Federal Tax  
Credit\*

See page 36

### Benefits:

- Pre-finished white wood frame and protective aluminum or copper cladding.
- Integrated gaskets drain condensation to the outside.
- Streamlined exterior profile does not obstruct your roofline.
- Pre-mounted Pick&Click!™ system brackets make the installation of sunscreen blinds a snap.

Models FS & FS Energy Performance	14° - 85° 3:12 - 137:12	A06	C01	C04	C06	C08	C12	D26	D06	M02	M04	M06	M08	S01	S06
Rough opening (W-in. x H-in.)		14 1/2 x 45 3/4	21 x 26 7/8	21 x 37 7/8	21 x 45 3/4	21 x 54 7/16	21 x 70 3/4	22 1/2 x 22 15/16	22 1/2 x 45 3/4	30 1/16 x 30	30 1/16 x 37 7/8	30 1/16 x 45 3/4	30 1/16 x 54 7/16	44 1/4 x 26 7/8	44 1/4 x 45 3/4

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

\*For more information visit: [veluxusa.com/taxcredits](http://veluxusa.com/taxcredits)



**Fifth Wall  
Design Tip**

connect outdoor  
rooms with sky  
views of nature

# Fixed Skylights

Curb-Mounted - FCM

**NEW** FCM Energy Performance Model

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



**Triple Pane Glass**  
available for cold weather climates

Fixed Curb-Mounted No Leak Skylight - FCM



Accessory tray is required for blind installation. See page 50.

## UPGRADE

to the Energy Performance Model

Boost energy performance up to 40%

Reduce energy dependency and maximize efficiency by automatically controlling blind position based on seasons.



Includes:



Eligible for **30%** Federal Tax Credit\*

See page 36

## Benefits:

- Integrated gaskets drain condensation to the outside.
- Streamlined exterior profile does not obstruct your roofline.
- A sunscreen accessory tray for standard site-built curbs allows for installation of VELUX Pick&Click!™ blinds.

## Custom Size Fixed Curb-Mounted Skylights - Custom FCM

### Shipping

**Width:** 18 3/4 - 50 3/4

**Height:** 18 3/4 - 72

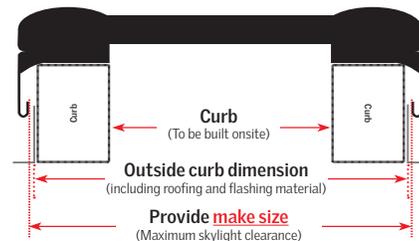
**Delivered:** 8-14 days

**Width:** 18 3/4 - 50 3/4

**Height:** 72 1/4 - 76 1/2

**Delivered:** 20 days

Note: Custom size flashing kits and custom size blinds are not available.  
Note: Some specialty glass options require longer lead times.



Models FCM & FCM Energy Performance



Outside curb

(W-in. x H-in.)

1430

1446

2222

2230

2234

2246

2270

3030

3046

3434

3446

4646

17 1/2 x 33 1/2

17 1/2 x 49 1/2

25 1/2 x 25 1/2

25 1/2 x 33 1/2

25 1/2 x 37 1/2

25 1/2 x 49 1/2

25 1/2 x 73 1/2

33 1/2 x 33 1/2

33 1/2 x 49 1/2

37 1/2 x 37 1/2

37 1/2 x 49 1/2

49 1/2 x 49 1/2



**Fifth Wall  
Design Tip**

enhance a tonal  
palette with  
natural light

# Self-Flashed Skylights

Self-Flashed - QPF

**NEW** QPF Energy Performance Model



Self-Flashed Skylight - QPF



## UPGRADE to the Energy Performance Model

Boost energy performance up to 40%

Reduce energy dependency and maximize efficiency by automatically controlling blind position based on seasons.



Includes:


 + 
 
  
 Factory-Installed, Room Darkening, Solar Blind    Programmable Remote Control

Eligible for  
**30%**  
Federal Tax Credit\*

See page 36

## Benefits:

- Pre-finished white wood frame and protective aluminum exterior.
- Integrated gaskets drain condensation to the outside.
- Streamlined exterior profile does not obstruct your roofline.
- Pre-mounted Pick&Click!™ system brackets make the installation of sunscreen blinds a snap.

Models QPF & QPF Energy Performance



Rough opening

(W-in. x H-in.)

2222

2230

2246

3030

3046

4646

22 1/2 x 22 1/2 | 22 1/2 x 30 1/2 | 22 1/2 x 46 1/2 | 30 1/2 x 30 1/2 | 30 1/2 x 46 1/2 | 46 1/2 x 46 1/2

\*For more information visit: [veluxusa.com/taxcredits](http://veluxusa.com/taxcredits)



**Fifth Wall  
Design Tip**

bring in natural light  
to open a room while  
adding privacy



# Instant Light Shaft

Ready-made skylight liner for easy and airtight completion on deck-mounted skylights  
(Model ZZZ 234)



The VELUX Instant Light Shaft simplifies the installation of a skylight by eliminating the time and costs associated with the construction of a traditional drywall light shaft.

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

- No drywall, spackling, sanding and painting needed
- Works on all "box" type light shafts (not flared)
- 16" standard depth (trim to actual on site)
- All other pieces are pre-cut to size to be site assembled
- 4" minimum spacing required around all sides if multiple skylights are installed

Smaller sizes: C01, C04, C06, C08  
Bigger sizes: M02, M04, M06, M08, S01, S06

Must provide skylight size code when ordering.  
Example: ZZZ 234 M02

**VELUX®**

The No Leak Skylight™



# Need an installer?

- Use our installer locator at [veluxusa.com/installer](http://veluxusa.com/installer).
- Check with your local VELUX skylight dealer.
- Contact VELUX Solutions at 1-866-358-3589.

We offer a Skylight Specialist program for local independent installers. A VELUX Skylight Specialist is:

- Carefully screened by us.
- Required to complete an extensive training program.
- Provides the best solutions for your daylighting needs.



# Blinds

Room Darkening - double-pleated  
Light Filtering - single-pleated  
Blackout - flat fabric

## Fifth Wall Design Tip

bring in color accents  
with blinds





# Factory-Installed Blinds

Ten factory-installed blinds are available to include with the purchase of your skylight. Most models are available in either manual or solar powered. The solar-powered blind uses its own independent, built-in solar panel and power system.

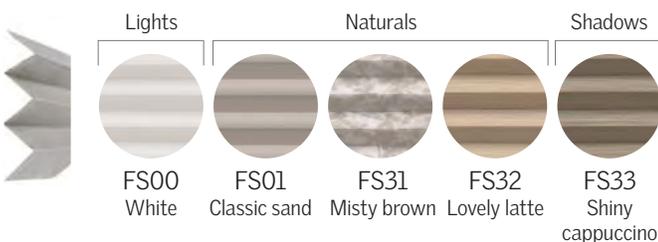
## In-stock room darkening - double-pleated blinds

- ✓ **Room darkening**  
Blackout cloth with honeycomb structure.
- ✓ **Energy efficient**  
Aluminum coating inside improves the insulation effect.
- ✓ **Sleek design**  
Neat pleats.



## In-stock light filtering - single-pleated blinds

- ✓ **Light dimming**  
Softens incoming light.
- ✓ **Sleek design**  
Neat pleats.



**30%** Federal tax credit on solar-powered blinds\*  
*Available in room darkening - double-pleated blinds, blackout blinds, light filtering - single-pleated blinds and light filtering blinds*

*Note: Special order blinds ship separately from your skylight. Please allow 14 working days for delivery.*

*\*For more information visit: [veluxusa.com/taxcredits](http://veluxusa.com/taxcredits)*



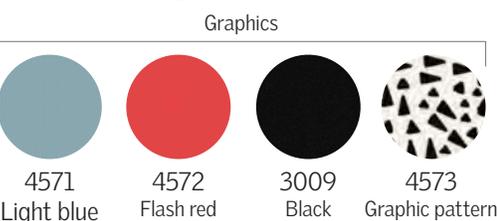
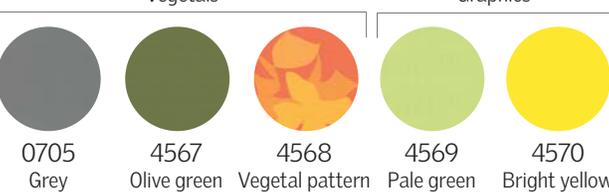
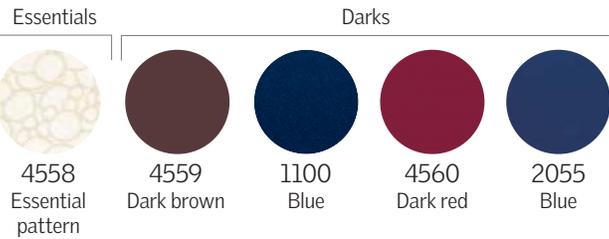
# Special Order Blinds

## Light filtering - single-pleated blinds

## Blackout blinds - flat

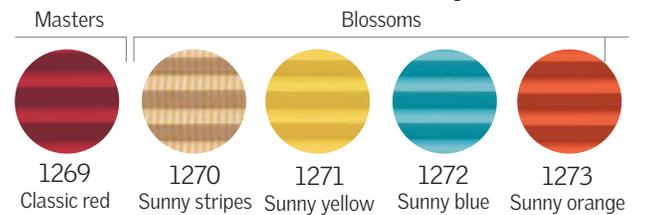
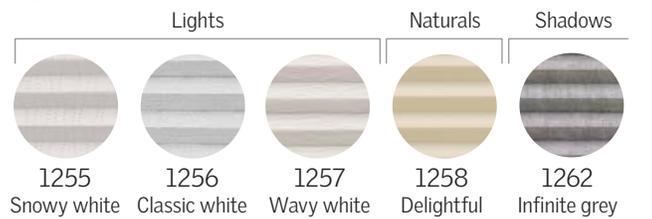
✓ **Blackout 24/7**  
Blackout even when the sun is shining.

✓ **Solar-powered or manual**



✓ **Colorful light effects**  
Softens incoming light.

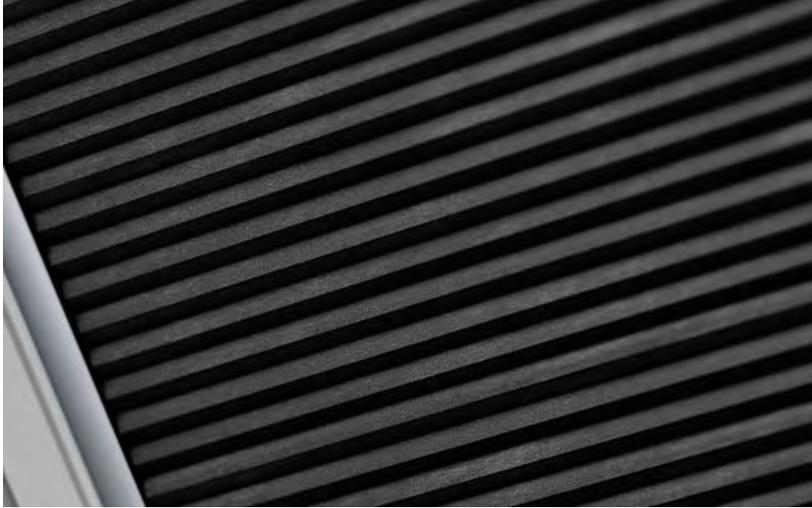
✓ **Solar-powered or manual**



**30%** Federal tax credit on solar-powered blinds\*  
Available in room darkening - double-pleated blinds, blackout blinds, light filtering - single-pleated blinds and light filtering blinds

Note: Special order blinds ship separately from your skylight. Please allow 14 working days for delivery.

\*For more information visit: [veluxusa.com/taxcredits](http://veluxusa.com/taxcredits)



## Room darkening - double-pleated blinds

- ✓ **Double-pleated blinds**  
Blackout cloth with honeycomb structure.
- ✓ **Energy efficient**  
40% improvement in U-value energy performance.
- ✓ **Sleek design**  
Neat pleats.
- ✓ **Easy installation**  
Installs in minutes with VELUX Pick&Click!™ system.
- ✓ **Solar-powered or manual**



## Venetian blinds

- ✓ **Complete light control**  
Control amount and direction of incoming light and shadows.
- ✓ **Manual only**



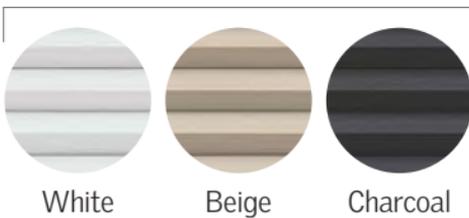
# NEW

## Energy Performance Model

### Energy Performance model can boost energy performance up to 40%

Choose from 5 color blinds. Double-pleated, room darkening, solar-powered blind improves energy performance up to 40%.

#### Basics

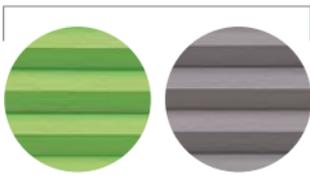


White

Beige

Charcoal

#### Authentics



Green

Grey

### Seasonal automation optimizes energy efficiency

Reduce energy dependency and maximize efficiency by allowing the homeowner or system to control blind positioning based on outside conditions.

#### Easy programmable remote control for winter and summer modes.



WINTER

Blinds automatically close at night during winter months to maximize energy efficiency and reduce heating costs.



SUMMER

Blinds automatically close during the daytime in warm summer months to maximize energy efficiency and reduce cooling costs.

*\*For more information, please visit [veluxusa.com/taxcredits](http://veluxusa.com/taxcredits). All calculations are based on the estimated cost of both the product and installation. These estimates were generated assuming a typical installation and used national averages for a new skylight cut-in. Actual installation costs will vary from these estimations based on common variables in roof construction and shaft construction.*

# NEW

## Energy Performance Model

Energy performance  
and tax savings all  
in one box

- ✓ Skylight
- ✓ Solar Blind
- ✓ Remote Control

**30% Federal  
Tax Credit**

Receive an average of \$730 on product and installation with federal tax credit eligibility.

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Available for the following models:  
VS, VCM, FS, FCM, QPF

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For more information  
visit: [veluxusa.com/taxcredits](http://veluxusa.com/taxcredits)\*

# Roof Windows

Deck-Mounted - GPU/GGU/GXU/GDL CABRIO™

## Fifth Wall Design Tip

keep natural light and  
fresh air within reach  
with roof windows



### Natural ventilation with a closed window

Let fresh air into your home without having to worry about security or bad weather, even when you are away or sleeping. Pull the unique top control bar once and you will allow fresh, filtered air to enter through the ventilation flap.



### White Polyurethane

Perfect for contemporary interiors and white ceilings. The polyurethane molding has no visible joints, and therefore ensures a moisture resistant finish that requires less maintenance than lacquered natural pine.



### More access to the outdoors

All of our roof windows make it easier to gain access to the outdoors.

# Roof Windows

Top-Hinged Roof Window - GPU  
Center-Pivot Roof Window - GGU



Top-Hinged Roof Window - GPU



Center-Pivot Roof Window - GGU

## Benefits:

- 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.
- GGU roof windows are only available for special order.
- Easy to open and quick to close with the top control bar. (GGU only)
- Low installation allows for more flexibility and better views.

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.

		Size code GPU								Size code GGU																
		15° - 55° 3:12 - 17:12								15° - 90° 3:12 - 90°																
		Rough opening (W-in. x H-in.)								Rough opening (W-in. x H-in.)																
		CK04	CK06	MK04	MK06	MK08	PK10	SK06	UK08	CK02	CK04	CK06	FK04	FK06	FK08	MK04	MK06	MK08	MK10	PK06	PK08	PK10	SK06	SK08	UK04	UK08
		22 <sup>1</sup> / <sub>8</sub> x 39	22 <sup>1</sup> / <sub>8</sub> x 46 <sup>7</sup> / <sub>8</sub>	31 <sup>1</sup> / <sub>4</sub> x 39	31 <sup>1</sup> / <sub>4</sub> x 46 <sup>7</sup> / <sub>8</sub>	31 <sup>1</sup> / <sub>4</sub> x 55 <sup>1</sup> / <sub>2</sub>	37 <sup>5</sup> / <sub>8</sub> x 63 <sup>1</sup> / <sub>2</sub>	45 <sup>3</sup> / <sub>8</sub> x 46 <sup>7</sup> / <sub>8</sub>	53 <sup>1</sup> / <sub>4</sub> x 55 <sup>1</sup> / <sub>2</sub>	22 <sup>1</sup> / <sub>8</sub> x 31 <sup>1</sup> / <sub>8</sub>	22 <sup>1</sup> / <sub>8</sub> x 39	22 <sup>1</sup> / <sub>8</sub> x 46 <sup>7</sup> / <sub>8</sub>	26 <sup>1</sup> / <sub>2</sub> x 39	26 <sup>1</sup> / <sub>2</sub> x 46 <sup>7</sup> / <sub>8</sub>	26 <sup>1</sup> / <sub>2</sub> x 55 <sup>1</sup> / <sub>2</sub>	31 <sup>1</sup> / <sub>4</sub> x 39	31 <sup>1</sup> / <sub>4</sub> x 46 <sup>7</sup> / <sub>8</sub>	31 <sup>1</sup> / <sub>4</sub> x 55 <sup>1</sup> / <sub>2</sub>	31 <sup>1</sup> / <sub>4</sub> x 63 <sup>1</sup> / <sub>2</sub>	37 <sup>5</sup> / <sub>8</sub> x 46 <sup>7</sup> / <sub>8</sub>	37 <sup>5</sup> / <sub>8</sub> x 55 <sup>1</sup> / <sub>2</sub>	37 <sup>5</sup> / <sub>8</sub> x 63 <sup>1</sup> / <sub>2</sub>	45 <sup>3</sup> / <sub>8</sub> x 46 <sup>7</sup> / <sub>8</sub>	45 <sup>3</sup> / <sub>8</sub> x 55 <sup>1</sup> / <sub>2</sub>	53 <sup>1</sup> / <sub>4</sub> x 39	53 <sup>1</sup> / <sub>4</sub> x 55 <sup>1</sup> / <sub>2</sub>



# Roof Windows

## Roof Access Window - GXU



Roof Access Window - GXU

### Benefits:

- Easy roof access for repairs, maintenance, emergency, and egress (FK06).
- Locking device keeps sash in open position.
- Slim sash and frame appearance.
- Ventilation flap.
- Can be installed as a left-hinged or right-hinged roof access window.
- Pre-installed Pick&Click!™ brackets for easy blind installation.

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.



Size code GXU

Rough opening



(W-in. x H-in.)



CK06

22 1/8 x 46 7/8



FK06

26 1/2 x 46 7/8



# Balcony Roof Window

Deck-Mounted - GDL CABRIO™



Balcony Roof Window - GDL CABRIO™

## Benefits:

- Dual-sash operation.
- Features a select wood frame with a clear finish sash coating and exterior aluminum.



Rough opening (W-in. x H-in.)



PK19

39 3/8 x 101



**Fifth Wall  
Design Tip**

transform attics with  
a private balcony

# 10-Year Installation Warranty

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 deck for a leak-proof installation.

## 2 Adhesive underlayment

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

## 3 Flashing ← *VELUX flashing must be purchased in order to qualify for the 10-year installation warranty.*

Engineered flashing for easy installation and primary water protection.

*For complete information visit [thenoleakskylight.com](http://thenoleakskylight.com).*

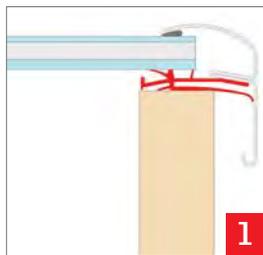
# The No Leak Skylight

• No Leak Promise • No Worries

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## Curb-Mounted - 3 layers of protection

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### 1 Pre-attached gasket

A pre-attached skylight gasket provides a seal between a standard site-built curb and the skylight that caps off a leak-proof installation for curb-mounted skylights.

### 2 Adhesive underlayment

Adhesive underlayment for secondary water protection against the harshest weather conditions for standard site-built curbs.

### 3 Flashing ← *ECL shingle or ECW tile flashing must be purchased in order to qualify for the 10-year installation warranty.*

Engineered flashing for easy installation and primary water protection.

*For complete information visit [thenoleakskylight.com](http://thenoleakskylight.com).*

# Deck-Mounted Flashing Systems

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

Adhesive underlayment included in flashing kit



## Shingles/shakes - EDL

- Step flashing pieces interweave with roofing material for proper water drainage.
- Additional step pieces (ZZZ 200) are required for shakes and other thick roofing materials.



## Combi applications\*

- Type EKL works with groupings on low-profile roofing materials such as shingles and shakes.
- Type EKW works with groupings on high-profile roofing materials such as Spanish tile or corrugated metal roofing.

*Note: VSS only available for side-by-side applications. (EKL only)*



## Tile roofing - EDW

- Patented-sill flashing features pliable pleats that form to 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.
- Copper products are special order items and require varying lead-times. Call for more information.



## Biepak flashing - ECB

- Used with site-built curb on low-sloped roofs.
- No bending of flashing required.
- Applied to 2-in. x 4-in. lumber and plywood.
- Download curb construction guidelines at [veluxusa.com](http://veluxusa.com).

*\*EKL applications require 4-in. over-and-under spacing and 2.5-in. - 12-in. side-by-side spacing in ½-in. increments.*

*EKW applications require 4-in. side-by-side.*

*Roof window combi application is available as a special order with varying lead-times. 4-in. spacing is required for both over-and-under and side-by-side spacing.*

# Curb-Mounted Flashing Systems

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

Adhesive underlayment included in flashing kit



## Shingles/shakes - ECL

- Step flashing pieces interweave with roofing material for proper water drainage.
- Additional step pieces (ZZZ 200) are required for shakes and other thick roofing materials.



## Tile roofing - ECW

- Patented-sill flashing features pliable pleats that form to most types of tile.
- Side and head flashing pieces form a gutter to direct water away from the skylight.

*Note: Also available for 14" & 22" curbmount Sun Tunnel Skylight*

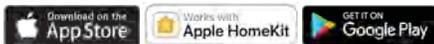
# Accessories

## Skylight accessories

### VELUX ACTIVE indoor climate control starter kit (KIX 300US)



This sensor-based control system monitors the climate in your home and automatically adjusts the ventilation of your skylights and position of your blinds accordingly.



### VELUX ACTIVE indoor climate sensor (KLA 300US)



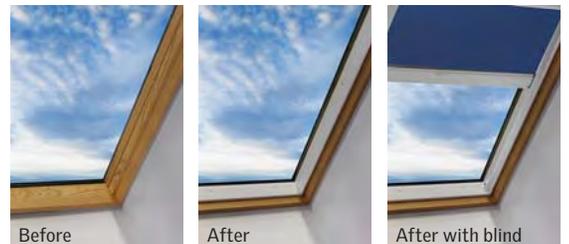
Measures temperature, humidity, and air quality (CO<sub>2</sub> levels). It can also operate INTEGRA skylights. Included in VELUX ACTIVE starter kit and can be bought separately in case extra sensors are needed. A sensor is recommended for each room with Fresh Air skylights.

### VELUX ACTIVE departure switch (KLN 300US)



Can securely close all electric/solar skylights. Safe mode limits skylight functions to only operate blinds when activated. Included in VELUX ACTIVE starter kit and can be bought separately in case extra departure switch is needed.

### Sun Screen Accessory Adapter Kit (ZZZ 232)



Enables prior model skylights to be fitted with any of our current model blinds. Available as a special order.  
**For models manufactured prior to January 1, 2010.**

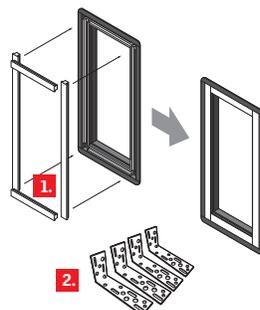
### Replacement Kits for FS and VS (ZZZ 238)

Replacement kit for all sizes of VS and most FS\* skylights. Allows the installer to use a standard size VELUX VS or FS skylight on a non-standard opening while minimizing the amount of interior trim work needed.

#### Replacement kit (ZZZ 238) contents:

1. 4 pre-cut drywall groove filler pieces minimizes interior trim work needed.
2. 4 structural mounting brackets allows skylight to be used in applications with an oversized rough opening.

\* Excluding FS A06, FS C12



### Instant Light Shaft (ZZZ 234)



The VELUX Instant Light Shaft simplifies the installation of a skylight by eliminating the time and costs associated with the construction of a traditional drywall light shaft.

### Angle Adapter for Chain Operator (ZZZ 203)

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Extension for manual crank handle or for the manual angle adapter to make skylights easier to operate with a manual pole.

### Extension for Chain Operator (ZZZ 208)

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

### Trim Kit with L Parts (ZZZ 213)

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Our skylight trim kit provides a clean interior finish with no trim work required. Used when replacing older style roof windows and skylights.

### Home Automation Integration Kit (KLF)

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The KLF provides the means for third party sensors to send wireless commands to VELUX skylights and accessories. The interface can control up to 200 solar operated or electrically powered skylights or skylight blinds. The KLF also functions as a signal repeater that extends the operating range of standard operating controls.

### VS Replacement Hook (ZZZ 202) VCM Replacement Hook (ZZZ 211)

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Available for manual venting skylights.

### VS Crank Handle (ZZZ 201) VCM Crank Handle (ZZZ 212)

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A manual crank handle used to operate deck-mounted venting skylights with a chain operator. Skylights must have been installed within reach and manufactured since 2010.

### Sunscreening Accessory Tray for Fixed Curb-mounted Skylights (ZZZ 199)

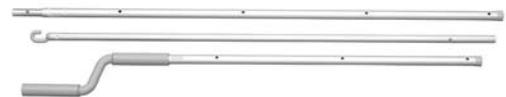
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The sunscreening accessory tray combined with the revolutionary Pick&Click!™ system makes blind installation quick and easy for VELUX fixed, curb-mounted skylights. It has everything built-in.

### Extension Rods (ZCT 300, ZCT 100, ZXT 200)

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6-ft. - 10-ft. rod for operation of manual skylights  
(ZCT 300) Available for models: VS, VCM



3-ft. extension for ZCT 300, and ZXT 200  
(ZCT 100) Available for models: FS, VS, VCM, QPF



"7 hook" rod for new manual blinds  
(ZXT 200) Available for models: FS, FCM, QPF

# VELUX Sun Tunnel Skylights

- Flat glass - TLR
- Curb-Mounted - TCR
- Rigid - TMR/TGR
- Flex - TMF/TGF





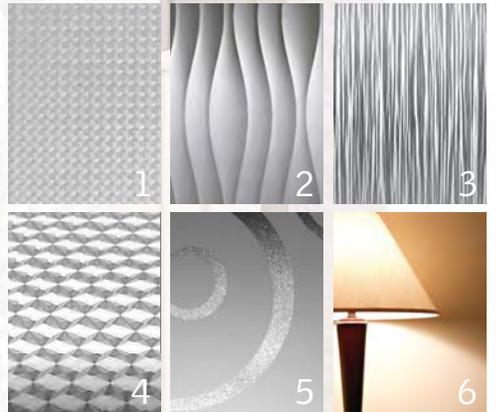
**Fifth Wall Design Tip**  
 paint shiplap to create a vintage appearance

**New**



**Redesigned Ceiling Ring**

- Better looking
- Brighter
- More energy efficient



**6 New Decorative Diffusers**

1. Micro Fresnel
2. Triple Wave
3. Brushed Metal
4. Prismatic
5. Bubbles
6. Neutral Light



**Flexi Loc™ system**

A tunnel connection system that reduces tunnel installation time in half. Integrates highly reflective tunnels that deliver quality daylight into the space below.



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 light capturing dome
- 2** Pivoting tunnel system for easy assembly
- 3** One-piece waterproof flashing assembly
- 4** Flexi Loc™ tunnel assembly system for quick and easy installation
- 5** Two 45-degree elbows, one 24" tunnel section, additional available
- 6** Energy efficient diffuser assembly with several diffuser options

# VELUX Sun Tunnel Skylights

- Flat Glass - TLR
- Curb-Metal Flashing - TCR
- Rigid Pitched - TMR
- Rigid Low Profile - TGR

*Kits included two 12" 45 degree adjustable elbows and one 24" tunnel extension*



Flat Glass - TLR

## Benefits:

- Ultra low profile glass design creates a stealth appearance on any roof line.
- Perfect for developments where local ordinance do not allow domed skylights.
- Provides maximum daylight on southern exposures.
- One piece pan flashing for easy installation.



14° - 60°  
3:12 - 20:12

Model TLR	014
Overall flashing	25 3/8" x 30 1/2"
Rough opening (ceiling)	14 1/2"
Rough opening (roof deck)	14 1/2"
Minimum installable length	4"
Maximum recommended install length (orientation dependent)	30'

Eligible for  
**30%**  
Federal Tax  
Credit

Universal solar powered night light  
for VELUX Rigid Residential Sun Tunnels (ZTZ 213)

Provides constant low-level light when the sun sets. Ensures Sun Tunnels provide light all day, every day. Available for all Rigid Sun Tunnels.



Curb-Metal Flashing - TCR



Rigid Pitched - TMR



Rigid Low Profile - TGR

- Ideal for low sloped applications.
- Perfect for use with metal roofing, rolled roofing, and high profile roofing materials.
- One piece curb mount flashing for easy installation.

- Pitched pan flashing is ideal for sloped roof applications.
- Pitched flashing provides optimal angle for gathering daylight within sloped applications.
- Ideal for all roof exposures.
- One piece pan flashing for easy installation.

- Low profile flashing provides an integrated look with the roof line.
- Low profile dome - acrylic or polycarbonate.
- Provides maximum daylight on southern exposures.
- One piece pan flashing for easy installation.



Model TCR	● 014
Overall flashing	22" x 22"
Rough opening (ceiling)	14 1/2"
Rough opening (roof deck)	16 3/4"
Minimum installable length	4"
Maximum recommended install length	30'



Model TMR	● 010	● 014
Overall flashing	24 3/4" x 26"	29" x 30 1/2"
Rough opening (ceiling)	10 1/2"	14 1/2"
Rough opening (roof deck)	14 1/2" x 16"	14 1/2" x 20"
Minimum installable length	4"	4"
Maximum recommended install length	20'	30'



Model TGR	● 010	● 014
Overall flashing	24 3/4" x 24 3/4"	29" x 29"
Rough opening (ceiling)	10 1/2"	14 1/2"
Rough opening (roof deck)	14 1/2" x 16"	14 1/2" x 18"
Minimum installable length	4"	4"
Maximum recommended install length	20'	30'

# VELUX Sun Tunnel Skylights

Flex Pitched - TMF  
Flex Low Profile - TGF

*Kits included 8' of flexible tunnel*



Flex Pitched - TMF



Flex Low Profile - TGF

## Benefits:

- Pitched pan flashing is ideal for sloped roof applications.
- Pitched flashing provides optimal angle for gathering daylight within sloped applications.
- Ideal for all roof exposures and short tunnel runs.
- One piece pan flashing for easy installation.
- Low profile flashing provides an integrated look with the roof line.
- Low profile dome - acrylic or polycarbonate.
- Provides maximum daylight on southern exposures.
- One piece pan flashing for easy installation.



Model TMF	014
Overall Flashing size	29" x 30 1/2"
Rough opening (ceiling)	14 1/2"
Rough Opening (roof deck)	14 1/2" x 20"
Minimum installable length	4"
Maximum recommended install length	8'



Model TGF	014	022
Overall Flashing size	29" x 29"	37" x 37"
Rough opening (ceiling)	14 1/2"	22 1/2"
Rough Opening (roof deck)	14 1/2" x 18"	22 1/2" x 26"
Minimum installable length	4"	4"
Maximum recommended install length	8'	8'



**Fifth Wall  
Design Tip**

add to a rustic  
farmhouse look by  
adding natural light

# Accessories

## Sun Tunnel Accessories

**NEW**

### Universal Solar Powered Night Light (ZTZ 213)

Eligible for  
**30%**  
Federal Tax  
Credit



Provides constant low-level light when the sun sets. Ensures Sun Tunnels provide light all day, every day. Available for all Rigid Sun Tunnels.

### VELUX ZTL Electric Light Kit (ZTL)



UL-approved, tubular light fixture that uses an energy efficient GU24 bulb base. Capable of accepting compact fluorescent bulbs or LED bulbs. Available for all models.



### Tile Flashing for 10" and 14" Pitched Sun Tunnel Skylights (ZTM)



Tile flashing accessory for pitched Sun Tunnel Skylights. Engineered with a painted, malleable aluminum water diverting sheet.

### Tile Flashing for 14" & 22" Curb-mounted Sun Tunnel Skylights (ECW)



A pliable, pleated, and proven curb-mounted tile flashing system for VELUX curb-mounted Sun Tunnel Skylights. Engineered flashing designed for tile roofing material.

### Daylight Controller (ZTP) Power Supply for Controller (ZZZ 233)



Allows the user to control the amount of daylight that enters a room. Perfect for rooms that require room darkening.



Power supply for VELUX Sun Tunnel Skylight light control devices.

### Energy Kit (ZTC 0041US)



Designed to increase the energy efficiency of the VELUX Sun Tunnel Skylight while enabling it to be ENERGY STAR® certified.

## Elbows (ZTE)



A durable and easy to operate elbow that can be used at the top, bottom, or middle of your installation. Multiple elbows can be joined together with rotating couplers to form a 90° bend or any other configuration needed to maneuver around obstacles. Length 15"

## Rotating Coupler (ZTZ 211)



Easy to install tunnel and elbow coupler that enables quick tunnel connections. Rotating joint helps align tunnel sections. Available in 10" and 14"

## Rigid Tube (ZTR)



24" Tunnel sections manufactured with the Flexi Loc™ tunnel connector system reduces tunnel installation time in half while delivering the highest quality daylight into the space below.

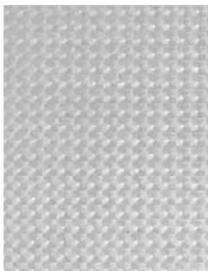
## Exterior Fire Band (ZZZ 192)



Fire band provides the dome edge protection needed for installation on Class B and C rated roofs.

## Decorative Diffuser (ZTB)

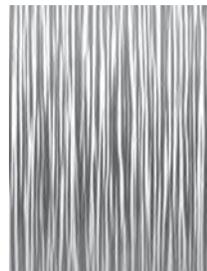
Transform Sun Tunnels to match your interior décor. Select from a range of micro engineered decorative diffusers to increase interior aesthetics and visual appeal.



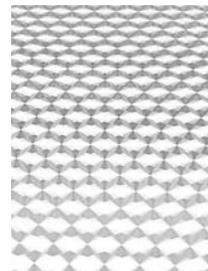
Micro Fresnel  
ZTB 4004US



Triple Wave  
ZTB 4005US



Brushed Metal  
ZTB 4006U



Prismatic  
ZTB 4007US



Bubbles  
ZTB 4008US



Neutral Light ZTB 4009US  
Convert daylight to appear more like a traditional household light bulb with a warm yellow hue.

# VELUX Modular Skylights

Fully integrated ventilation and sunscreening

## Fifth Wall Design Tip

place skylights over a stairwell to illuminate the core of the home





## What are VELUX Modular Skylights?

VELUX Modular Skylights are the perfect way to open up large rooms in your home and create a light, bright and spacious environment. VELUX Modular Skylights combine elegant lines and intelligent design with exceptional energy efficiency.



## Unique design

Developed in collaboration with renowned architects Foster + Partners, VELUX Modular Skylights offers a minimalist design with super-slim profiles. The electronics and motors in each module are concealed, creating a simple and refined look, inside and out.



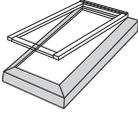
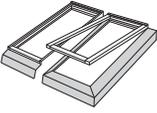
## Robust and energy efficient

All VELUX Modular Skylights are constructed from an advanced composite material that makes them very strong and highly energy-efficient. The entire installation is designed to withstand extreme weather conditions, with a life expectancy stretching far into the future and a 10-Year Product Guarantee.

# VELUX Modular Skylights

5° Longlights suitable for roof pitches between 0°– 10° \*

Other longlight systems available for roof pitches between 10°- 25° call 844-99-GOVMS

	Product code Ventilating	Product code all Fixed	Description	Total opening width x height
	HVC 100120 SL0047	HFC 100120 SL0017	<b>Fixed:</b> One fixed longlight, complete with all flashings components.**	41 9/16" x 51"
	HVC 100160 SL0047	HFC 100160 SL0017		41 9/16" x 67"
	HVC 100200 SL0047	HFC 100200 SL007	<b>Ventilating:</b> One electrically operated vented longlight, complete with all flashings components. Includes electric control system and wind and rain sensor.**	41 9/16" x 83"
	HVC 100240 SL0047	HFC 100240 SL0017		41 9/16" x 98"
	HVC 100120 SL0048	HFC 100120 SL0018	<b>Fixed:</b> Two fixed longlights, complete with flashing components.**	81" x 51"
	HVC 100160 SL0048	HFC 100160 SL0018		81" x 67"
	HVC 100200 SL0048	HFC 100200 SL0018	<b>Ventilating:</b> Two longlights, one fixed, one electrically operated vented, complete with flashing components. Includes electric control system and wind and rain sensor.**	81" x 83"
	HVC 100240 SL0048	HFC 100240 SL0018		81" x 98"
	HVC 100120 SL0049	HFC 100120 SL0019	<b>Fixed:</b> Three fixed longlights, complete with flashing components.**	120 4/16" x 51"
	HVC 100160 SL0049	HFC 100160 SL0019		120 4/16" x 67"
	HVC 100200 SL0049	HFC 100200 SL0019	<b>Ventilating:</b> Three longlights, two fixed, one electrically operated vented, complete with flashing components. Includes electric control system and wind and rain sensor.**	120 4/16" x 83"
	HVC 100240 SL0049	HFC 100240 SL0019		120 4/16" x 98"
	HVC 100120 SL0050	HFC 100120 SL0020	<b>Fixed:</b> Four fixed longlights, complete with flashing components.**	159 10/16" x 51"
	HVC 100160 SL0050	HFC 100160 SL0020		159 10/16" x 67"
	HVC 100200 SL0050	HFC 100200 SL0020	<b>Ventilating:</b> Four longlights, two fixed, two electrically operated vented, complete with flashing components. Includes electric control system and wind and rain sensor.**	159 10/16" x 83"
	HVC 100240 SL0050	HFC 100240 SL0020		159 10/16" x 98"
	HVC 100120 SL0051	HFC 100120 SL0021	<b>Fixed:</b> 10 fixed longlights, complete with flashing components.**	395 14/16" x 51"
	HVC 100160 SL0051	HFC 100160 SL0021		395 14/16" x 67"
	HVC 100200 SL0051	HFC 100200 SL0021	<b>Ventilating:</b> Ten longlights, seven fixed, three electrically operated vented, complete with flashing components. Includes electric control system and wind and rain sensor.**	395 14/16" x 83"
	HVC 100240 SL0051	HFC 100240 SL0021		395 14/16" x 98"

\*Assumes 0° roof pitch

\*\*The installer is responsible for curb flashing material and installation of the curb to the roof.

Installer may want to consider the use of a water diverter above the longlight system when installed on a pitched roof.

Delivery time is approximately 8-10 weeks

## Double-glazing unit

All configurations come standard with **Type 10 Glass** – Dual pane, low energy, clear exterior over laminated interior.

Also available:

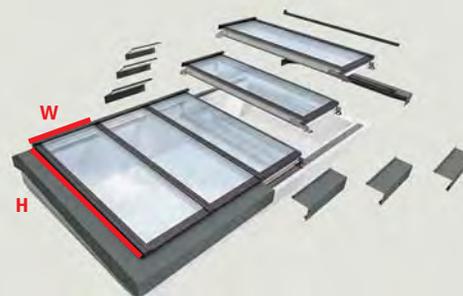
**Type 11** Dual pane, low energy, with solar protection exterior over laminated interior.

**Type 16** Super low energy, triple pane.



## Modular concept

VELUX Modular Skylights is based on a strictly modular concept. All components are prefabricated to ensure consistent quality throughout the build, fast and easy installation and a perfect fit every time.



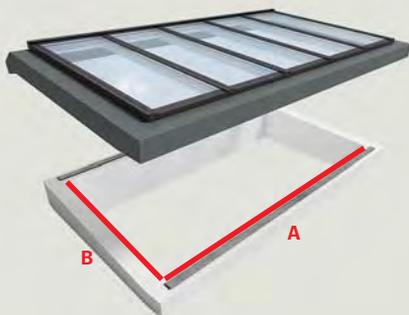
### Module

H: Module Height  
W: Module Width



### Individual sub-construction

To ensure a precise and trouble-free installation process, the sub-construction needs to meet the individual demands of your roof construction. Consequently, the sub-construction is not part of the modular system, but has to be constructed on site. Ask your installer to recommend the best sub-construction for your installation project. Sub-construction document will be provided on all quotes and orders providing exact dimensions.

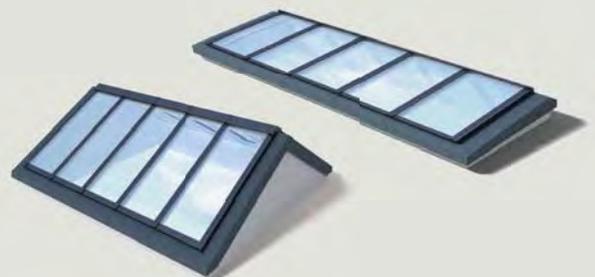


#### Sub-construction

A: Opening Width  
B: Opening Length

### More VMS configurations are available.

Please call 844-99-GOVMS for pricing and product availability or email [vmmodularskylightsusa@velux.com](mailto:vmmodularskylightsusa@velux.com).



# Testing data

VSE/VSS Technical Information					
Glass	04	06**	08	10	9994
<b>Air infiltration/exfiltration*</b> [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]					
l/s/m <sup>2</sup>	0.2	0.4	0.2	0.3	0.2
cfm/ft <sup>2</sup>	0.03	0.07	0.03	0.06	0.03
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr)*</b> [max. tested differential pressure with no leakage]					
Pascals	720	720	720	720	720
lbs/ft <sup>2</sup>	15	15	15	15	15
<b>Thermal performance</b> (Certified, complete unit values)					
VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor, SHGC, and VT</b> ratings listed in the NFRC Certified Products Directory.					
U-Factor	0.42	0.40	0.42	0.41	0.37
SHGC	0.23	0.23	0.22	0.23	0.23
VT	0.53	0.52	0.39	0.52	0.52
<b>UV protection, %</b>					
300-380 nm	99.9	99.9	99.9	99.9	99.9
<b>Fading protection, % (Krochmann damage function)</b>					
300-600 nm	83.1	84.6	88.4	83.2	85.1
<b>Structural Performance [Performance Grade or DP] *</b>					
Tested size	Uplift (lbs/ft <sup>2</sup> )				
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/ft <sup>2</sup> )				
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: <b>Product 426-H-670</b> (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					
<b>04 glass:</b> Tempered over laminated HS (0.030" interlayer) <b>06 glass:</b> Tempered over laminated HS (0.090" interlayer) <b>08 glass:</b> Same as 04, with white interlayer <b>10 glass:</b> Tempered over laminated Tempered (0.030" interlayer) <b>9994 glass:</b> Same as 04, with i89 coating on interior surface					

VS Technical Information							
Glass	04	05	06**	08	10	9993	9994
<b>Air infiltration/exfiltration*</b> [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]							
l/s/m <sup>2</sup>	0.2	0.5	0.4	0.2	0.3	0.5	0.2
cfm/ft <sup>2</sup>	0.03	0.09	0.07	0.03	0.06	0.09	0.03
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr)*</b> [max. tested differential pressure with no leakage]							
Pascals	720	720	720	720	720	720	720
lbs/ft <sup>2</sup>	15	15	15	15	15	15	15
<b>Thermal performance</b> (Certified, complete unit values)							
VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor, SHGC, and VT</b> ratings listed in the NFRC Certified Products Directory.							
U-Factor	0.42	0.43	0.40	0.42	0.41	0.38	0.37
SHGC	0.23	0.23	0.23	0.22	0.23	0.23	0.23
VT	0.53	0.54	0.52	0.39	0.52	0.52	0.52
<b>UV protection, %</b>							
300-380 nm	99.9	95.2	99.9	99.9	99.9	95.3	99.9
<b>Fading protection, % (Krochmann damage function)</b>							
300-600 nm	83.1	79.2	84.6	88.4	83.2	81.6	85.1
<b>Structural Performance [Performance Grade or DP] *</b>							
Tested size	Uplift (lbs/ft <sup>2</sup> )						
S06	65	90	65	65	80	90	65
M08	105	120	65	105	85	120	105
C06	n.r.	n.r.	n.r.	n.r.	90	n.r.	n.r.
Tested size	Download (lbs/ft <sup>2</sup> )						
S06	370	300	300	370	860	300	370
M08	440	400	360	440	1090	400	440
C06	n.r.	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: <b>Product 426-H-670</b> (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							
<b>04 glass:</b> Tempered over laminated HS (0.030" interlayer) <b>05 glass:</b> Tempered over tempered <b>06 glass:</b> Tempered over laminated HS (0.090" interlayer) <b>08 glass:</b> Same as 04, with white interlayer <b>10 glass:</b> Tempered over laminated Tempered (0.030" interlayer) <b>29 glass:</b> Tempered over tempered over laminated HS (0.030" interlayer) <b>9993 glass:</b> Same as 05, with i89 coating on interior surface <b>9994 glass:</b> Same as 04, with i89 coating on interior surface							

FS Technical Information							
Glass	04	05	06**	08	10	9993	9994
<b>Air infiltration/exfiltration*</b> [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]							
l/s/m <sup>2</sup>	0.1	0.7	0.1	0.1	0.1	0.7	0.1
cfm/ft <sup>2</sup>	0.01	0.14	0.01	0.01	0.01	0.14	0.01
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr)*</b> [max. tested differential pressure with no leakage]							
Pascals	720	720	720	720	720	720	720
lbs/ft <sup>2</sup>	15	15	15	15	15	15	15
<b>Thermal performance</b> (Certified, complete unit values)							
VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor, SHGC, and VT</b> ratings listed in the NFRC Certified Products Directory.							
U-Factor	0.44	0.45	0.42	0.44	0.42	0.39	0.38
SHGC	0.26	0.26	0.26	0.25	0.26	0.26	0.26
VT	0.60	0.61	0.60	0.44	0.60	0.60	0.60
<b>UV protection, %</b>							
300-380 nm	99.9	95.2	99.9	99.9	99.9	95.3	99.9
<b>Fading protection, % (Krochmann damage function)</b>							
300-600 nm	83.1	79.2	84.6	88.4	83.2	81.6	85.1
<b>Structural Performance [Performance Grade or DP] *</b>							
Tested size	Uplift (lbs/ft <sup>2</sup> )						
S06	70	45	65	70	65	45	70
M08	105	90	120	105	100	90	105
C06	n.r.	n.r.	n.r.	n.r.	65	n.r.	n.r.
Tested size	Download (lbs/ft <sup>2</sup> )						
S06	160	400	300	160	720	400	160
M08	350	400	300	350	1180	400	350
C06	n.r.	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: <b>Product 426-H-669</b> (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							
<b>04 glass:</b> Tempered over laminated HS (0.030" interlayer) <b>05 glass:</b> Tempered over tempered <b>06 glass:</b> Tempered over laminated HS (0.090" interlayer) <b>08 glass:</b> Same as 04, with white interlayer <b>10 glass:</b> Tempered over laminated Tempered (0.030" interlayer) <b>29 glass:</b> Tempered over tempered over laminated HS (0.030" interlayer) <b>9993 glass:</b> Same as 05, with i89 coating on interior surface <b>9994 glass:</b> Same as 04, with i89 coating on interior surface							

VCE /VCS Technical Information					
Glass	04	06**	08	10	9994
<b>Air infiltration/exfiltration*</b> [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]					
l/s/m <sup>2</sup>	0.1	0.1	0.41	<0.1	0.1
cfm/ft <sup>2</sup>	0.02	0.01	0.02	<0.01	0.02
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr)*</b> [max. tested differential pressure with no leakage]					
Pascals	720	720	720	720	720
lbs/ft <sup>2</sup>	15	15	15	15	15
<b>Thermal performance</b> (Certified, complete unit values)					
VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor, SHGC, and VT</b> ratings listed in the NFRC Certified Products Directory.					
U-Factor	0.53	0.50	0.53	0.51	0.48
SHGC	0.24	0.24	0.23	0.24	0.22
VT	0.55	0.54	0.40	0.54	0.49
<b>UV protection, %</b>					
300-380 nm	99.9	99.9	99.9	99.9	99.9
<b>Fading protection, % (Krochmann damage function)</b>					
300-600 nm	83.1	84.6	88.4	83.2	85.1
<b>Structural Performance [Performance Grade or DP] *</b>					
Tested size	Uplift (lbs/ft <sup>2</sup> )				
4646	45	60	45	40	45
2246	n.r.	n.r.	n.r.	65	n.r.
Tested size	Download (lbs/ft <sup>2</sup> )				
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: <b>Product 426-H-695</b>					
** 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					
<b>04 glass:</b> Tempered over laminated HS (0.030" interlayer) <b>06 glass:</b> Tempered over laminated HS (0.090" interlayer) <b>08 glass:</b> Same as 04, with white interlayer <b>10 glass:</b> Tempered over laminated Tempered (0.030" interlayer) <b>9994 glass:</b> Same as 04, with i89 coating on interior surface					

# Testing data

VCM Technical Information						
Glass	04	05	06**	10	9993	9994
<b>Air infiltration/exfiltration*</b> [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]						
l/s/m <sup>2</sup>	0.1	<0.1	0.1	<0.1	<0.1	0.1
cfm/ft <sup>2</sup>	0.02	<0.01	0.01	<0.01	<0.01	0.02
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr)*</b> [max. tested differential pressure with no leakage]						
Pascals	720	720	720	720	720	720
lbs/ft <sup>2</sup>	15	15	15	15	15	15
<b>Thermal performance</b> (Certified, complete unit values)						
VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor, SHGC, and VT</b> ratings listed in the NFRC Certified Products Directory.						
U-Factor	0.53	0.53	0.50	0.51	0.48	0.48
SHGC	0.24	0.24	0.24	0.24	0.22	0.22
VT	0.55	0.56	0.54	0.54	0.50	0.49
<b>UV protection, %</b>						
300-380 nm	99.9	95.2	99.9	99.9	95.3	99.9
<b>Fading protection, % (Krochmann damage function)</b>						
300-600 nm	83.1	79.2	84.6	83.2	81.6	85.1
<b>Structural Performance [Performance Grade or DP] *</b>						
Tested size	Uplift (lbs/ft <sup>2</sup> )					
4646	45	30	60	40	30	45
2246	n.r.	n.r.	n.r.	65	n.r.	n.r.
Tested size	Download (lbs/ft <sup>2</sup> )					
4646	230	230	230	620	230	230
2246	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: <b>Product 426-H-695</b>						
** 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						
<b>04 glass:</b> Tempered over laminated HS (0.030" interlayer)						
<b>05 glass:</b> Tempered over tempered						
<b>06 glass:</b> Tempered over laminated HS (0.090" interlayer)						
<b>08 glass:</b> Same as 04, with white interlayer						
<b>10 glass:</b> Tempered over laminated Tempered (0.030" interlayer)						
<b>9993 glass:</b> Same as 05, with i89 coating on interior surface						
<b>9994 glass:</b> Same as 04, with i89 coating on interior surface						

FCM Technical Information								
Glass	04	05/05C	06**	08	10	29/30	9993	9994
<b>Air infiltration/exfiltration*</b> [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]								
l/s/m <sup>2</sup>	0.2	<0.1	<0.1	0.2	0.1	0.3	<0.1	0.2
cfm/ft <sup>2</sup>	0.03	<0.01	<0.01	0.03	0.01	0.05	<0.01	0.03
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr)*</b> [max. tested differential pressure with no leakage]								
Pascals	720	720	720	720	720	720	720	720
lbs/ft <sup>2</sup>	15	15	15	15	15	15	15	15
<b>Thermal performance</b> (Certified, complete unit values)								
VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor, SHGC, and VT</b> 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	0.43
SHGC	0.27	0.27/0.28	0.27	0.26	0.27	0.25	0.25	0.25
VT	0.63	0.64/0.63	0.62	0.46	0.62	0.57	0.57	0.57
<b>UV protection, %</b>								
300-380 nm	99.9	95.2	99.9	99.9	99.9	95.2	95.3	99.9
<b>Fading protection, % (Krochmann damage function)</b>								
300-600 nm	83.1	79.2	84.6	88.4	83.2	79.2	81.6	85.1
<b>Structural Performance [Performance Grade or DP] *</b>								
Tested size	Uplift (lbs/ft <sup>2</sup> )							
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/ft <sup>2</sup> )							
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: <b>Product 426-H-701</b>								
** 06 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								
<b>04 glass:</b> Tempered over laminated HS (0.030" interlayer)								
<b>05 glass:</b> Tempered over tempered								
<b>06 glass:</b> Tempered over laminated HS (0.090" interlayer)								
<b>08 glass:</b> Same as 04, with white interlayer								
<b>10 glass:</b> Tempered over laminated Tempered (0.030" interlayer)								
<b>29 glass:</b> Tempered over tempered over laminated HS (0.030" interlayer)								
<b>30 glass:</b> Tempered over tempered over tempered								
<b>9993 glass:</b> Same as 05, with i89 coating on interior surface								
<b>9994 glass:</b> 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).								

QPF Technical Information						
Glass	04	05	06**	08	9993	9994
<b>Air infiltration/exfiltration*</b> [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]						
l/s/m <sup>2</sup>	0.5	0.3	0.4	0.5	0.3	0.5
cfm/ft <sup>2</sup>	0.09	0.06	0.08	0.09	0.06	0.09
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr) *</b> [max. tested differential pressure with no leakage]						
Pascals	580	720	720	580	720	580
lbs/ft <sup>2</sup>	12	15	15	12	15	12
<b>Thermal performance</b> (Certified, complete unit values)						
QPF Skylights are rated and labeled per NFRC Procedures (VEL-N-17) U-Factor, SHGC, and VT ratings listed in the NFRC Certified Products Directory						
U-factor (Btu/[hr*ft <sup>2</sup> *F°]) @20° slope	0.42	0.43	0.40	0.42	0.38	0.37
SHGC	0.25	0.24	0.25	0.24	0.24	0.24
VT	0.57	0.57	0.57	0.40	0.56	0.56
<b>UV protection, %</b>						
300-380 nm	99.9	95.2	99.9	99.9	95.3	99.9
<b>Fading protection, % (Krochmann damage function)</b>						
300-380 nm	83.1	79.2	84.6	88.4	81.6	85.1
<b>Structural Performance [Performance Grade or DP] *</b>						
Tested size	Uplift (lbs/ft <sup>2</sup> )					
4646	80	80	100	80	80	80
Tested size	Download (lbs/ft <sup>2</sup> )					
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: <b>Product 426-H-677</b> Florida Product Approval FL-13300 Texas Dept. of Insurance Reports: SK-03 and SK-14						
**06 variant is 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						
<b>04 glass:</b> Tempered over laminated HS (0.030" interlayer) <b>05 glass:</b> Tempered over tempered <b>06 glass:</b> Tempered over laminated HS (0.090" interlayer) <b>08 glass:</b> Same as 04, with white interlayer <b>9993 glass:</b> Same as 05, with i89 coating on interior surface <b>9994 glass:</b> Same as 04, with i89 coating on interior surface						

#### Testing data notes

- 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.
- Thermal and optical performance data are verified by accredited entities.
- 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.

Residential Sun Tunnel Skylights Technical Information							
Model	TLR	TSR	TCR	TGF	TGR	TMF	TMR/THR
<b>Air infiltration/exfiltration*</b> [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]							
l/s/m <sup>2</sup>	0.1	0.3	0.5	0.2			
cfm/ft <sup>2</sup>	0.01	0.05	0.09	0.04			
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr)*</b> [max. tested differential pressure with no leakage]							
Pascals	720	720	720	720			
lbs/ft <sup>2</sup>	15	15	15	15			
<b>Thermal performance</b> (Certified, complete unit values)							
Sun Tunnels are tested, listed and labeled per NFRC procedures U-Factor (with insulation at ceiling), SHGC, and VT <sub>annual</sub>							
<b>U-factor: Btu/[hr*ft<sup>2</sup>*F°]</b>							
Base model	0.51	n.r.	n.r.	0.50	n.r.	0.50	n.r.
w/energy kits	0.36	n.r.	0.38	0.37	0.38	0.37	0.38
<b>SHGC: US ratings shown for models with E0 energy kits</b>							
Base model	0.46	n.r.	n.r.	0.21	n.r.	0.21	n.r.
w/energy kits	0.42	n.r.	0.25	n.r.	0.25	n.r.	0.25
<b>Annual Average Visible Transmittance (VT<sub>annual</sub>)</b>							
Base model	0.36	n.r.	n.r.	0.16	n.r.	0.16	n.r.
w/energy kits	0.32	n.r.	0.40	n.r.	0.40	n.r.	0.40
<b>Structural Performance [Performance Grade or DP]*</b> [Note: 1 psf = 47.88 Pa]							
Dome type **	Uplift (negative)						
Acrylic or Polycarbonate	n.a.	180 Acrylic only	165	125			
Temp. Glass	245	n.a.					
Dome type **	Download (positive)						
Acrylic or Polycarbonate	n.a.	200 Acrylic only	300	300			
Temp. Glass	150	n.a.					
* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011) Sun Tunnels are certified per WDMA Hallmark: <b>Products 426-H-626, -693, -705, and -706</b> Florida Product Approval FL-6393 Texas Dept. of Insurance Reports: SK-12, SK-15 and SK-24							
**All Sun Tunnels models with Polycarbonate domes are tested for Wind-Borne debris, in accordance with ASTM E1886 and ASTM E1996. Rated for Wind Zone 3, Missile Level C, Cycle Pressure +50/-50 (The following models not available with Polycarbonate domes: THR, TLR, TSR)							

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



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