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61 Testing data

The VELUX House

The possibilities are endless

Roof windows are perfect for upper floor bonus rooms where they will be within reach for easy opening. Features include a sash that rotates inward for easy cleaning from the inside and a ventilation flap that allows for fresh air circulation when the window is closed.

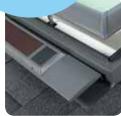


Pages 33-40

Bligible for a 30%
Federal tax credit

Receive an average of \$850* on product and installation with federal tax credit eligibility

The Solar Powered "Fresh Air" Skylight features a solar panel that charges an internal battery and control system. The skylight is remote controlled and solar powered, which means it requires no additional wiring, making for easy and cost effective installation. An integrated rain sensor closes the unit in case of rain and it is a No Leak Skylight, with our 3 layers of water protection, covered by our 10-year installation warranty.





Pages 7-10

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





The flat glass, low profile SUN TUNNEL™ skylight creates a sleek look on any roofline and is perfect for those developments where local ordinances do not allow domed skylights.

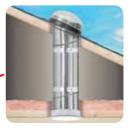
Page 49



The electric "Fresh Air" models feature pre-mounted Pick&Click!™ system brackets, making installation of sunscreen blinds a snap. A single hard wire connects to a standard junction box.

Pages 11-14





SUN TUNNEL™ skylights are a great way to bring natural light into areas where a window may be impractical.

Pages 47-51



The Solar Powered "Fresh Air" Skylight is available for both deck mounted and curb mounted applications.

Pages 7-10



The manual "Fresh Air" skylights open and close using a control rod that operates a smooth turning handle when the skylight is out of reach.

Pages 15-18



Our fixed skylights feature a prefinished white wood frame and protective aluminum or copper cladding. The streamlined exterior profile does not obstruct your roofline.

Pages 19-24

The logical choice for any skylight installation

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

If you are considering adding daylight to your home, see how easy it is to add daylight and fresh air. With a 30% federal tax credit, homeowners will receive an average of \$850* with federal tax credit eligibility, which makes this product very affordable.



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 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



Clean, Quiet & Safe glass



Clean

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



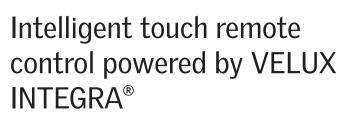
Quiet

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



Safe

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



Included with your skylight is the intelligent touch remote control powered by VELUX INTEGRA®. With the touch-sensitive screen and easily-understood icons, programing skylights has become simpler than ever.









New Room darkening - double pleated blinds

Make your home more energy efficient with VELUX room darkening - double pleated blinds. The blackout cloth with honeycomb structure and an aluminum coating inside improves the insulation effect of the window as well as the indoor climate all year round. The sleek design with neat pleats makes it an attractive blind for any room. The only blind that offers blackout, privacy and insulation all-in-one.



Room darkening - double pleated blinds

Blackout cloth with honeycomb structure.



Energy efficient

Aluminum coating inside improves the insulation effect.



Sleek design

Neat pleats.



Colors

Choose between twelve colors.



Solar powered or manual



1159

1156

Brown

Blue

1051 Raspberry

1160 Yellow



1161



Orange

1162 Cherise

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

Choosing the right glass

Clean, Quiet & Safe glass - Recommended for out of reach applications



Tempered glass (xx05)

Clean, Quiet & Safe glass (xx04) Dual pane laminated glass Standard on: VSS, VCS, VSE, VCE skylights



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

Impact (xx06)

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

White laminated (xx08) Available on: VSE, VCE, VS, VCM, FS, FCM, OPF Snowload (xx10) Available on: VSE, VCE, VS, VCM, FS, FCM, VSS

Clean

Silicon dioxide makes Neat® glass exceptionally smooth. In fact, it's much smoother than ordinary glass. So water disperses evenly, "sheets off" and evaporates quickly, greatly reducing water spotting.

Titanium dioxide reacts chemically with the sun's UV rays, causing organic materials that are on the glass to decompose. It works even on cloudy days, as 80 percent of UV radiation gets through cloud cover. Then when it rains, the decomposed dirt is rinsed away, leaving the glass almost spotless. Result? Homeowners can spend less time washing windows and more time enjoying the view.

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 percent annually.



Ouiet

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



Safe

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

Choosing the right glass

Tempered glass - Recommended for in reach applications



Dual pane tempered glass

Tempered glass (xx05)

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

ENERGY STAR®

Use of ENERGY STAR® products

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

Most VELUX products are ENERGY STAR® certified in all 50 states, which means that they meet strict energy efficiency standards set by the Environmental Protection Agency (EPA). ENERGY STAR® fenestration products must have their U-factor, Visible Transmittance, and Solar Heat Gain Coefficient tested and certified by the National Fenestration Rating Council (NFRC) in order to qualify.

By specifying or using ENERGY STAR® products, architects and builders can use more windows and skylights, to bring much needed daylight and fresh air inside. 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 and SUN TUNNEL $^{\text{\tiny TM}}$ skylights.

Visit: energystar.gov for more information.









New Room darkening - double pleated blinds

Solar powered







1161 Orange

New Light filtering - single pleated blinds

Solar powered



1273 Sunny orange

Blackout blinds-flat

1272

Sunny blue

Solar powered

1271

Sunny yellow



Solar Powered "Fresh Air" Skylights

Deck mounted - VSS Curb mounted - VCS

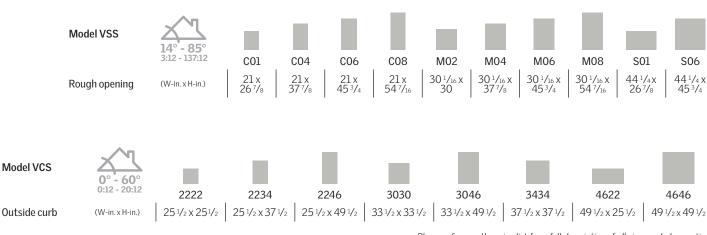




Benefits:

- With a 30% federal tax credit, homeowners will receive an average of \$850* with federal tax credit eligibility, which makes this product very affordable.
- 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.
- · Available in deck and curb mounted applications.

^{*}For more information visit: veluxusa.com/taxcredits



Please reference the price list for a full description of all sizes and glass options.



Electric "Fresh Air" skylights Deck mounted - VSE Curb mounted - VCE The No Leak Skylight No Leak Promise No Worries **FIVE-STAR REVIEW** "Besides beautiful light and airflow on demand, I can tell it when to open and close, even if I am not at home...now that's smart!" (2) VSE M06 Electric"Fresh Air" skylights (1) VSE S06 Electric "Fresh Air" skylights veluxusa.com



New Room darkening - double pleated blinds

Solar powered







1161 Orange

New Light filtering - single pleated blinds

Solar powered



1273

Sunny orange

Blackout blinds-flat

1272

Sunny blue

Solar powered

1271

Sunny yellow



Electric "Fresh Air" skylights

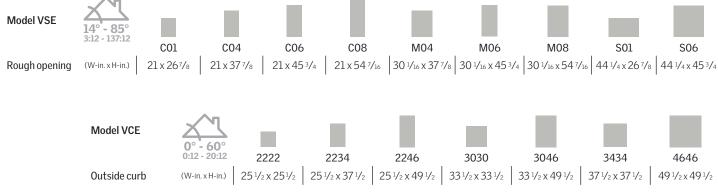
Deck mounted - VSE Curb mounted - VCE





Benefits:

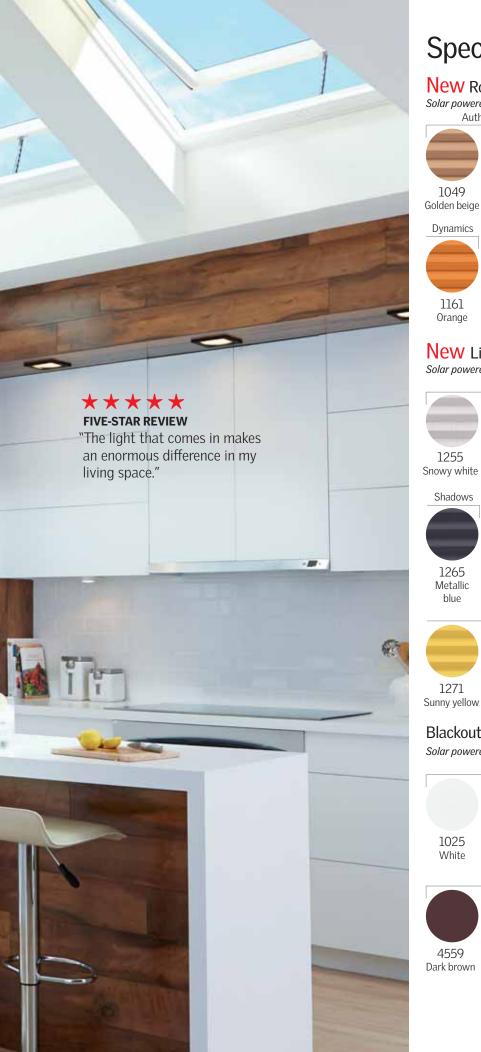
- A pre-installed concealed motor and control system powered by VELUX INTEGRA® allows you to enjoy the one-touch convenience of a remote control.
- With the integrated rain sensor, electric skylights will close automatically in case of inclement weather.
- Pre-mounted Pick&Click!™ system brackets make 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.



Please reference the price list for a full description of all sizes and glass options.







New Room darkening - double pleated blinds

Solar powered



Dynamics



1161 Orange

New Light filtering - single pleated blinds

Solar powered



1273

Sunny orange

Blackout blinds-flat

1272

Sunny blue

Solar powered

1271



Manual "Fresh Air" skylights

Deck mounted - VS Curb mounted - VCM

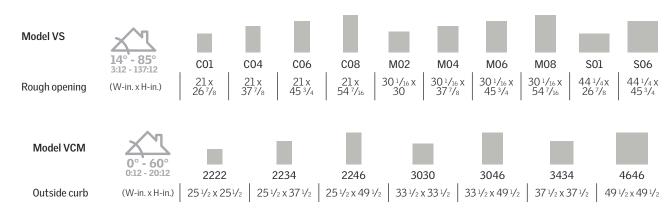






Benefits:

- Factory pre-finished white frames and sashes provide a high quality finish that eliminates the need for secondary, high cost trips by a painter.
- · Opens and closes manually with VELUX control rods when out of reach.
- Smooth turning handle for when the skylight is installed within reach. (Sold separately)
- Pre-mounted Pick&Click!™ system brackets make the installation of sunscreen blinds a snap.
- Replacement kits for FS and VS (ZZZ 238) 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. (see page 45)



Please reference the price list for a full description of all sizes and glass options.







New Room darkening - double pleated blinds

Solar powered or manual







1161 Orange

New Light filtering - single pleated blinds

Solar powered or manual



1273

Sunny orange

Blackout blinds-flat

1272

Sunny blue

Solar powered or manual

1271

Sunny yellow



Fixed skylights

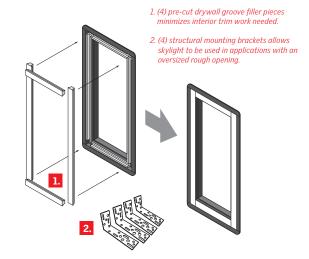
Deck mounted - FS





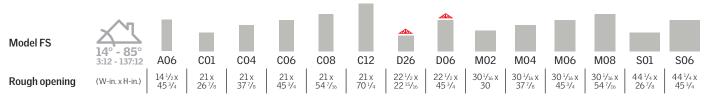
Replacement kits for FS and VS (ZZZ 238)

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.



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.



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

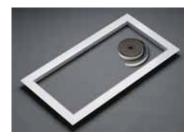


Fixed skylights

Curb mounted - FCM





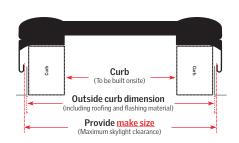


Accessory tray is required for blind installation.

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



Make size (W-in. x L-in.)	Width 18 ₃/₄-in. To 50 ₃/₄-in.
Height 18 ³ /4-in. To 72-in.	Now delivered in 12 days or less
Height 72 1/4-in. To 76 1/2-in.	Now delivered in 20 days or less

We require maximum skylight clearance dimensions in $\frac{1}{4}$ -in. increments $(0, \frac{1}{4}, \frac{1}{2}, \frac{3}{4})$ for width and height.

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

Please call for pricing and availability: 1-800-888-3589









New Room darkening - double pleated blinds

Solar powered or manual
Authentics







1161 Orange

New Light filtering - single pleated blinds

Solar powered or manual



1273

Sunny orange

Blackout blinds-flat

1272

Sunny blue

Solar powered or manual

1271

Sunny yellow



Self-flashed skylight

Self-flashed - QPF



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.







Room darkening - double pleated blinds

Double pleated blinds Blackout cloth with honeycomb structure.

Energy efficient Aluminum coating inside improves the insulation effect.

Sleek design Neat pleats.

Easy installation Installs in minutes with VELUX Pick&Click!™ system.

Solar powered or manual



Available in room darkening - double pleated blinds, blackout blinds, light filtering - single pleated blinds and light filtering blinds

Federal tax credit on solar powered blinds*

Note: Special order blinds ship separately from your skylight. Please allow 2 weeks for delivery.

*For more information visit: veluxusa.com/taxcredits









Light filtering - single pleated blinds

Colorful light effects Softens incoming light.

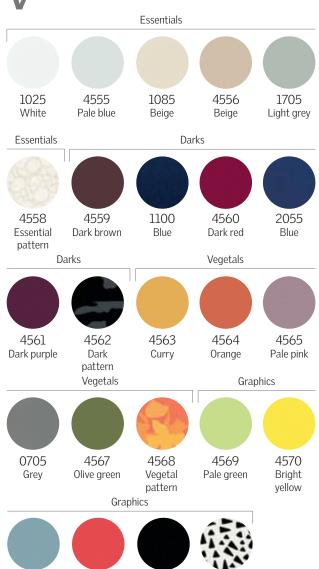
Solar powered or manual



Blackout blinds - flat

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

Solar powered or manual



3009

Black

4573

Graphic pattern

4571

Light blue

4572

Flash red

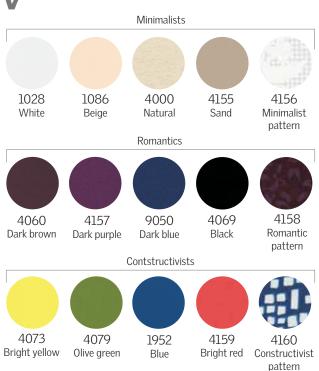




Light filtering blinds - flat

Basic privacy Offers both protection and good looks.

Solar powered or manual



Venetian blinds

Complete light control

Control amount and direction of incoming light and shadows.





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

*For more information visit: veluxusa.com/taxcredits

Note: Special order blinds ship separately from your skylight. Please allow 2 weeks for delivery. Special order blinds are also available for prior model skylights when a sunscreen adapter kit is purchased





Special order blinds

New Room darkening - double pleated blinds

Manual



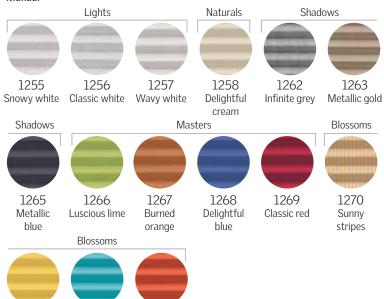
Dynamics



1161 Orange

New Light filtering - single pleated blinds

Manual



1273 Sunny orange

Blackout blinds-flat

1272

Sunny blue

Manual

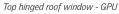
1271



Roof windows

Top hinged roof window - GPU Center-pivot roof window - GGU

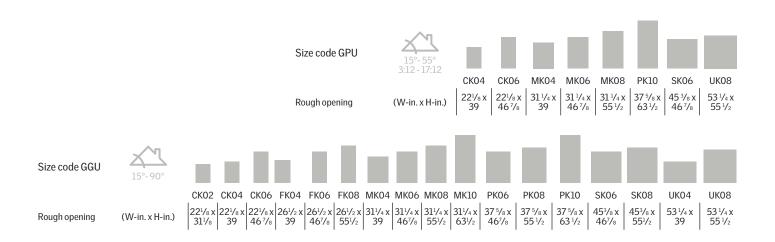






Benefits:

- 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.
- Convenient even with furniture placed beneath the roof window.
- Easy to open and quick to close with the top control bar. (GGU only)
- Low installation allows for more flexibility and better views.





Roof windows

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.



Size code GXU

Rough opening

(W-in. x H-in.)





26 ½ x 46 1/8



Balcony roof window

Deck mounted - GDL CABRIO™



Benefits:

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





PK19

Rough opening

(W-in. x H-in.)

39 ³/₈ x 101



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 VELUX flashing must be purchased in order to qualify for the 10-year installation warranty. Flashing <

Engineered flashing for easy installation and primary water protection.

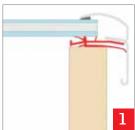
For complete information visit thenoleakskylight.com.

The No Leak Skylight

• No Leak Promise • No Worries

Curb mounted - 3 layers of protection









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.

Adhesive underlayment

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

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

Engineered flashing for easy installation and primary water protection.

For complete information visit thenoleakskylight.com.

ТМ

Deck mounted flashing systems

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



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



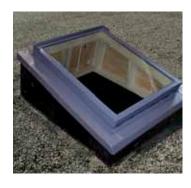
Metal roofing - EDM

- 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.



Biepack 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 quidelines at: 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



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

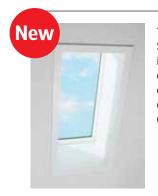
- · Patented sill flashing features pliable pleats that form to most types of tile.
- Side and head flashing pieces form a gutter to direct water away from the skylight.

Note: Also available for 14" & 22" curbmount SUN TUNNEL

Accessories

Accessories for all your skylight conveniences

Instant light shaft (ZZZ 234)



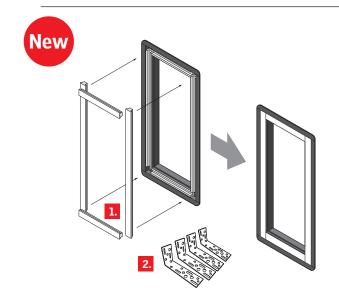
The VELUX Instant Light Shaft simplifies the installation of a skylight by eliminating the time and costs associated with the construction of a traditional drywall light shaft.

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)



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.

Replacement kit (ZZZ 238) contents:

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

^{*} Excluding FS A06, FS C12

Angle adapter for chain operator (ZZZ 203)



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)



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

Trim kit with L parts (ZZZ 213)



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

Intelligent touch remote control (KLR 200)



Included with your solar or electric skylight is the Intelligent touch remote control powered by VELUX INTEGRA®. With the touch-sensitive screen and intuitive icons, programing skylights has become simpler than ever.

Size: $3^{11}/_{16}$ -in. x $3^{11}/_{16}$ -in.

VS Replacement hook (ZZZ 202) VCM Replacement hook (ZZZ 211)



Available for manual venting skylights.

VS Crank handle (ZZZ 201) VCM Crank handle (ZZZ 212)



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)



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, ZMT 300, ZCT 100, ZXT 200)



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

3-ft. extension for ZCT 300, ZMT 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, VS







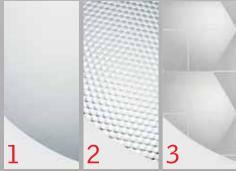
Pivoting tunnel system

The adjustable pitch adapter makes tunnel installation easier while enabling more light to be captured.



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.



Diffuser options

- 1. Frosted diffuser (standard)
- 2. Prismatic diffuser (optional)
- 3. Fresnel diffuser (optional)

VELUX SUN TUNNEL™ skylights

Flat glass - TLR Curb metal flashing - TCR





Benefits:

- Low profile glass design creates sleek appearance on any
- Perfect for developments where local ordinances do not allow acrylic dome tubular skylights.
- Available in 14-in. rigid only.
- Prefabricated light tunnel makes it easy to install.

- One piece metal curb mounted flashing.
- Low profile dome acrylic or polycarbonate.
- Pivoting tunnel system.

Model TLR 14°-60° 3:12 - 20:12		014
Outside flashing	in.	$25 \frac{3}{8} \times 30 \frac{1}{2}$
Rough opening (ceiling)	in.	14 1/2
Rough opening (roof deck)	in.	$14^{1/2} \times 17^{3/4}$
Daylight area	sq. in.	138
Net wt (w/ acrylic)	lbs.	29
Standard tubing kit length	in.	48
Maximum recommended install length & orientation dependent	ft.	30

MadalTOD	0° - 60°		
Model TCR	0:12 - 20:12		014
Outside flashing		in.	$20^{7/8} \times 20^{7/8}$
Rough opening (ceiling)		in.	14 1/2
Rough opening (roof deck	()	in.	$16^{3}/_{4} \times 16^{3}/_{4}$
Daylight area		sq. in.	138
Net wt (w/ acrylic)		lbs.	29
Standard tubing kit lengt	h	in.	48
Maximum recommended length	install	ft.	30

VELUX SUN TUNNEL™ skylights

Rigid pitched - TMR Rigid low profile - TGR



Rigid low profile - TGR

- Pitched flashing provides optimum angle for gathering light from all roof orientations.
- Tile flashing kit available.
- Impact models available for hurricane prone areas.
- 99.9% silver reflective layer with a 20-year tunnel warranty, total reflectance 99%.

- · Low profile flashing provides an integrated look with the roofline.
- Impact models available for hurricane prone areas.
- 99.9% silver reflective layer with a 20-year tunnel warranty, total reflectance 99%.

1	4° - 60°		
Model TMR 3:	12 - 20:12	010	014
Outside flashing	in.	27 x 27	29 x 30 1/2
Rough opening (ceiling)	in.	10 1/2	14 1/2
Rough opening (roof deck)	in.	14 ½ x 16	14 ½ x 20
Daylight area	sq. in.	65	138
Net wt (w/ acrylic)	lbs.	20	29
Standard tubing kit length	in.	48*	48*
Maximum recommended insta length	ll ft.	20	30

	14° - 60° 3:12 - 20:12	010	014
Outside flashing	in.	24 ³ / ₄ x 24 ³ / ₄	29 x 29
Rough opening (ceiling)	in.	10 1/2	14 1/2
Rough opening (roof deck)	in.	$14^{1}/_{2} \times 14^{1}/_{2}$	14 ½ x 18
Daylight area	sq. in.	65	138
Net wt (w/ acrylic)	lbs.	20	29
Standard tubing kit length	in.	48*	48*
Maximum recommended inst length & orientation depende		20	30

^{*}Subtract approximately 6" for flashing when comparing to attic depth at point of installation.

VELUX SUN TUNNEL™ skylights

Flex pitched - TMF Flex low profile - TGF





- Pitched flashing provides optimum angle for gathering light from all roof directions.
- Tile flashing available.
- Impact models available for hurricane prone areas.



- Low profile flashing provides an integrated look with the roofline.
- Pivoting tunnel system and flexible tunnel for a quick and easy installation.
- Impact models available for hurricane prone areas.

Model TMF	14° - 60° 3:12 - 20:12		014
Outside flashing		in.	$29 \times 30^{1/2}$
Rough opening (ceiling)		in.	14 1/2
Rough opening (roof deck)		in.	$14^{1/2} \times 20$
Daylight area		sq. in.	138
Net wt (w/ acrylic)		lbs.	26
Standard tubing kit length		in.	96
Maximum recommended in length	stall	ft.	8

Model TGF 14° - 60 3:12 - 20:11		014	022
Outside flashing	in.	29 x 29	37 x 37
Rough opening (ceiling)	in.	14 1/2	221/2
Rough opening (roof deck)	in.	$14^{1/2} \times 18$	22 1/2 x 26
Daylight area	sq. in.	138	314
Net wt (w/ acrylic)	lbs.	24	36
Standard tubing kit length	in.	96	96
Maximum recommended install length	ft.	8	12



Accessories

Energy kit (ZTC 0041US)



Designed to increase the energy efficiency of the VELUX SUN TUNNEL skylight while enabling it to be ENERGY STAR® certified.

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.

VELUX ZTL electric light kit (ZTL)



UL approved tubular light fixture that uses an energy efficient GU24 bulb base that is capable of accepting compact fluorescent bulbs or LED bulbs.

Available for all models.



ZTK Blackout shade



Manually block the light coming through the SUN TUNNEL skylight in seconds with a manual blackout blind.



Available for the 10" and 14" SUN TUNNEL skylights

Tile flashing for 10" and 14" pitched SUN TUNNEL (ZTM)



Tile flashing accessory for pitched SUN TUNNEL skylights. Engineered with a painted, malleable aluminum water diverting sheet.

Tile flashing for 10" & 14" 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.

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.

Rigid tube (ZTR)



24-in. 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)



Available for 10" and 14"

Ceiling level decorative diffuser that transforms daylight into an attractive style to compliment any décor.



Brushed nickel ZTB 3021US



Polished brass ZTB 3022US



Oil rubbed bronze ZTB 3023US



White ZTB 3020US







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 superslim 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.

NEW VELUX Modular Skylights

5° Longlights suitable for roof pitches between 0°-10° *

Other longlight systems available for roof pitches betweeen 10°- 25° call 1-888-878-3589

HVC 100120 SL0047 HFC 100120 SL0017 HVC 100160 SL0047 HFC 100160 SL0017 HVC 100200 SL0047 HFC 100200 SL001 With all flashings components. HFC 100200 SL001 With all flashings components. Includes electric control system and wind and rain sensor. HVC 100120 SL0048 HFC 100120 SL0018 H
HVC 100200 SL0047 HFC 100200 SL001 With all flashings components. Includes electric control system and wind and rain sensor.** HVC 100120 SL0048 HFC 100120 SL0018 HVC 100160 SL0048 HFC 100160 SL0018 HVC 100200 SL0048 HFC 100160 SL0018 HVC 100160 SL0048 HFC 100160 SL0018
HVC 100200 SL0047 HFC 100200 SL0017 with all flashings components. Includes electric control system and wind and rain sensor.** HVC 100120 SL0048 HFC 100120 SL0018 Fixed: Two fixed longlights, complete with flashing components.** HVC 100160 SL0048 HFC 100160 SL0018 HVC 100200 SL0048 HFC 100200 SL0018 With all flashings components. Includes electric control system and wind and rain sensor.** ### With all flashings components. Includes electric control system and wind and rain sensor.** #### With all flashings components. Includes electric control system and wind and rain sensor.** ##################################
HVC 100240 SL0047 HFC 100240 SL0017 wind and rain sensor.** 41 % 15" x 98" HVC 100120 SL0048 HFC 100120 SL0018 Fixed: Two fixed longlights, complete with flashing components.** 81" x 51" HVC 100160 SL0048 HFC 100160 SL0018 HVC 100200 SL0048 HFC 100200 SL0018 Ventilating: Two longlights, one fixed, one electrically operated vented, complete with flashing components. Includes electric control sys-
HVC 100160 SL0048 HFC 100160 SL0018 HVC 100200 SL0048 HFC 100200 SL0018 Wentilating: Two longlights, one fixed, one electrically operated vented, complete with flashing components. Includes electric control systems
HVC 100200 SL0048 HFC 100200 SL0018 Ventilating: Two longlights, one fixed, one electrically operated vented, complete with flashing components. Includes electric control sys-
ed, complete with flashing components. Includes electric control sys-
· · · · · · · · · · · · · · · · · · ·
HVC 100120 SL0049 HFC 100120 SL0019 Fixed: Three fixed longlights, complete with flashing components.** 120 4/16" x 51"
HVC 100160 SL0049 HFC 100160 SL0019 120 \(^4\)/16" \times 67" \\ HVC 100200 SL0049 HFC 100200 SL0019 Ventilating: Three longlights, two fixed, one electrically operated 120 \(^4\)/16" \times 83"
HVC 100240 SL0049 HFC 100240 SL0019 vented, complete with flashing components. Includes electric control system and wind and rain sensor.** 120 1/16 X 63
HVC 100120 SL0050 HFC 100120 SL0020 Fixed: Four fixed longlights, complete with flashing components.** 159 10/16" x 51"
HVC 100160 SL0050 HFC 100160 SL0020 159 16/16" x 67" HVC 100200 SL0050 HFC 100200 SL0020 Ventilating: Four longlights, two fixed, two electrically operated 159 16/16" x 83"
wented, complete with flashing componets. Includes electric control system and wind and rain sensor.**
System and wind and rain sensor.
HVC 100120 SL0051 HFC 100120 SL0021 Fixed: 10 fixed longlights, complete with flashing components.** 395 \(^1\set{1}\set{1}\)' x 51"
HVC 100160 SL0051 HFC 100160 SL0021 395 14/16" x 67"

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:

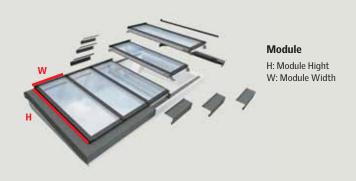
Type 11 Dual pane Low Energy with Solar Protection exterior over Laminated interior.

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.

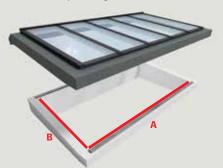


^{**}The installer is responsible for curb flashing material and installation of the curb to the roof. Installer may want to consider the use of a water diverter above the longlight system when installed on a pitched roof.



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.

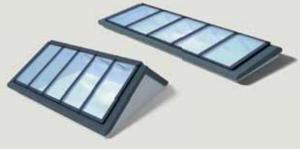


Sub-construction

A: Opening Width B: Opening Length

More VMS configurations are available.

Please call 1-888-878-3589 for pricing and product availability.

















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, C12

Bigger sizes: M02, M04, M06, M08, S01, S06

Must provide skylight size code when ordering. Example: ZZZ 234 MO2

Code compliance

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

2015 IBC (International Building Code), 2015 IRC (International Residential Code), and 2015 IECC (International Energy Conservation Code), as well as local and regional codes that are the above (and earlier) codes.

In addition, electrical components built into VELUX products are UL listed.

Standard VELUX 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.







Need an installer?

- Use our installer locator at 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.





Testing data

VSE/VSS Technical Information								
Glass	04	06**	08	10	9994			
Air infil	tration/exfiltra	ation* [max. @	75 Pa (1.57 lbs	/ft²) differenti	al 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			
			L/m²/min (5 U al pressure with					
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	0.42	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			
	UV protection, %							
(300- 380 nm)								
	Fadi	ing protection,	% (Krochmanı	n damage funct	tion)			
(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		D	ownload (lbs/ft	t²)				
S06	370	300	370	860	370			
M08	440	360	440	1090	440			
C06	n.r.	n.r.	n.r.	1200	n.r.			
* Tt-d innd-n with A AMA (M/DMA (OCA 101/1 C 2/A 440 11 (NA EC 2011)								

^{*} 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: Products 426-H-670, -678, -679, -682 (not applicable to copper-clad variants)

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	05	06**	08	10	9993	9994
Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft²) differential pressure]							
l/s/m²	0.2	0.5	0.4	0.2	0.3	0.5	0.2
cfm/ft²	0.03	0.09	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	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	0.42	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
UV protection, %							
(300- 380 nm)	99.9	95.2	99.9	99.9	99.9	95.3	99.9
		Fading pro	otection, %	(Krochma	ınn damage	function)	
(300- 600 nm)	83.1	79.2	84.6	88.4	83.2	81.6	85.1
	Stru	ctural Perfo	rmance [F	erformanc	e Grade or I	DP] *	
Tested Size			U	plift (lbs/ft	2 2)		
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			Dov	vnload (lbs	/ft²)		
0.20			300	370	860	300	370
S06	370	300	300	370			
	370 440	300 400	360	440	1090	400	440

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: Products 426-H-670, -678, -679, -682 (not applicable to copper-clad variants)

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

^{** 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

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

FS Technical Information							
Glass	04	05	06**	08	10	9993	9994
Air in	filtration/e	cfiltration*	[max. @ 7	5 Pa (1.57 I	bs/ft²) diffe	erential pre	ssure]
l/s/m²	0.1	0.7	0.1	0.1	0.1	0.7	0.1
cfm/ft²	0.01	0.14	0.01	0.01	0.01	0.14	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	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	0.44	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						0.60
	UV protection, %						
(300- 380 nm)	99.9 95.2 99.9 99.9 95.3 99.9						
		Fading pr	otection, %	(Krochma	nn damage	function)	
(300- 600 nm)	83.1	79.2	84.6	88.4	83.2	81.6	85.1
	Struc	ctural Perfo	ormance [F	erformance	e Grade or	DP] *	
Tested Size			U	plift (lbs/ft			
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			Dov	vnload (lbs,	/ft²)		
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: Products 426-H-669, -672, -675, -680 -694 (not applicable to copper-clad variants)

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

VCE /VCS Technical Information							
Glass	04	06**	08	10	9994		
Air infiltr	ation/exfiltratio	on* [max. @ 7!	5 Pa (1.57 lbs/f	t²) 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	0.48	0.46	0.48	0.47	0.43		
SHGC	0.27	0.27	0.26	0.27	0.25		
VT	0.63	0.62	0.46	0.62	0.52		
		U	V protection, 9	%			
(300-380 nm)	99.9	99.9	99.9	99.9	99.9		
	Fadi	ng protection,	% (Krochmanr	n damage func	tion)		
(300-600 nm)	83.1	84.6	88.4	83.2	85.1		
	Structural P	erformance [P	erformance Gr	ade or DP] *			
Tested Size			Uplift (lbs/ft²)				
4646	45	60	45	40	45		
2246	n.r.	n.r.	n.r.	65	n.r.		

n.r.

Download (lbs/ft2)

n.r.

1150

Tested Size

2246

Structural performance ratings also apply to sizes smaller than the Tested Size VCE and VCS skylights are WDMA Hallmark certified: Products 426-H-695, -696, -697, -698

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

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

Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)

^{** 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

Testing data

VCM Technical Information							
Glass	04	05	06**	10	9993	9994	
Air infil	tration/exfilt	ration* [max	c. @ 75 Pa (1	.57 lbs/ft²) d	lifferential pi	ressure]	
l/s/m²	0.1	<0.1	0.1	<0.1	<0.1	0.1	
cfm/ft²	0.02	<0.01	0.01	<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	
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	r 0.48 0.49 0.46 0.47 0.43 0.43						
SHGC	0.27	0.27	0.27	0.27	0.25	0.25	
VT 0.63 0.64 0.62 0.62 0.57 0.57							
UV protection, %							
(300-380 nm)	99.9	95.2	99.9	99.9	95.3	99.9	
	F	ading protec	tion, % (Kro	chmann dam	age function	1)	
(300-600 nm)	83.1	79.2	84.6	83.2	81.6	85.1	
	Structu	al Performa	nce [Perforn	nance Grade	or DP] *		
Tested Size			Uplift (lbs/ft²)			
4646	45	30	60	40	30	45	
2246	n.r.	n.r.	n.r.	65	n.r.	n.r.	
Tested Size			Download	d (lbs/ft²)			
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: Products 426-H-695, -696, -697,

** 06 variant is tested and WDMA Hallmark certified for Wind-borne debris impact, in accordance with ASTM E 1886 and ASTM E 1996.

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	05	06**	10	9993	9994	
Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft²) differential pressure]							
l/s/m²	0.2	<.1	<.1	0.1	<.1	0.2	
cfm/ft²	0.03	0.03 <0.01 <0.01 0.01		<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	
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	048	0.49	0.46	0.47	0.43	0.43	
SHGC	0.27	0.27	0.27	0.27	0.25	0.25	
VT	0.63	0.64	0.62	0.62	0.57	0.57	
	UV protection, %						
(300-380 nm)	99.9	95.2	99.9	99.9	95.3	99.9	
Fading protection, % (Krochmann damage function)							
(300-600 nm)	83.1	79.2	84.6	83.2	81.6	85.1	
Structural Performance [Performance Grade or DP] *							
Tested Size	Uplift (lbs/ft²)						
4646	120	140	80	135	140	120	
2270	100	n.r.	n.r.	n.r.	n.r.	100	

FCM Technical Information

Download (lbs/ft2)

200

Structural performance ratings also apply to sizes smaller than the Tested Size FCM skylights are WDMA Hallmark certified: Products 426-H-671, -701, -702,

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,

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

Note: The FCM 4646 0007 (or smaller) is the only VELUX skylight qualified for use in the Florida HVHZ (High Velocity Hurricane Zone). See Miami-Dade NOA No. 12-0223.14

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, TAS201, 202, and 203; OSHA regulations; various ASTM methods.

Tested

Size

200

n.r.

b) Thermal and optical performance data are determined for skylights at 20 degree slope, and verified in accordance with NFRC procedures (where applicable) by accredited entities.

Most VELUX products are listed in the NFRC Certified Products Directory, and carry appropriate labels in accordance with NFRC's certification program. NFRC ID: VEL-N-xxx

c) Most variants have achieved WDMA Hallmark certification under No. 426-H, and/or recognition under Uniform-ES report #ER 0199 (IAPMO-ES).

In addition, Florida and TDI have listed most variants in their product evaluation/approval systems, and the FCM 07 is covered by Miami-Dade NOA #12-0233.14.

n.r. Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)

QPF Technical Information								
Glass	04	05	06**	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)								
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	0.45	0.42	0.44	0.40	0.39		
SHGC	0.24	0.24	0.24	0.24	0.24	0.24		
VT	0.56	0.57	0.55	0.41	0.55	0.55		
	UV protection, %							
(300-380 nm)	99.9 95.2		99.9 99.9		95.3	99.9		
Fading protection, % (Krochmann damage function)								
(300-600 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)								

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 WDMA Hallmark certified: Products 426-H-677, -699, -700

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

9993 glass: Same as 05, with i89 coating on interior surface

9994 glass: Same as 04, with i89 coating on interior surface

SUN TUNNEL™ skylights Technical Information*								
Model	TLR	TSR	TCR	TGF	TGR	TMF	TMR	
Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft²) differential pressure]]								
l/s/m²	0.2 (Fixed)	0.3 (A3)	0.5 (A3)	0.2 (Fixed)				
cfm/ft²	.03	.05	.09		.С)4		
Water resistance @ 3.4 L/m²/min (5 USgal/ft²/hr)* [max. tested differential pressure with no leakage]								
Pascals (Pa)	720	720	720	720				
lbs/ft² (psf)	15	15	15	15				
	Thermal performance (Certified, complete unit values)							
VELUX SUN TUNNEL™ skylights are labeled with certified U-Factor (with insulation at ceiling), and SHGC ratings, as listed in the NFRC Certified Products Directory								
U-factor: Btu/[hr*ft²*F°] and (W/[m²*K°])								
Base Model	.51 (3.46)	.38 (2.16)	n.r.	.50 (2.84)	n.r.	.50 (2.84)	n.r.	
w/ Energy kits		n.r.	.38 (2.16)	.37 (2.10)	.38 (2.16)	.37 (2.10)	.38 (2.16)	
SHGC:	US and (Car	nadian) ratin	gs shown fo	r models wi	th EO and (E	E1) energy k	its	
Base model	.46	.37	n.r.	.21	n.r.	.21	n.r.	
w/ Energy kits	n.r.	n.r.	.25 (0.36)	n.r. (0.21)	.25 (0.37)	n.r. (0.21)	.25 (0.37)	
		Visi	ble transmit	tance (VT)				
VT base model	.36	n.r.	n.r.	.16	n.r.	.16	n.r.	
VT w/energy kits	.32	n.r.	.40	n.r.	.40	n.r.	.40	
Structural Performance *-Performance Grades or DP in psf: NAFS-11 (NAFS-08) [Note: 1 psf = 47.88 Pa]								
Dome Type:**		Uplift (negative)						
Acrylic or Polycarbonate	NA	240 (155) Acrylic only	165 (125)	125 (90)				
Temp. Glass	n.r. (170)		NA					
Dome Type:**		Download (positive)						
Acrylic or Polycarbonate	NA	400 (250) Acrylic only	300 (200)	300 (200)				
Temp. Glass	n.r. (250)	NA						
* Tested	in accordance with ΔΔΜΔ/WDMΔ/CSΔ 101/LS 2/Δ440-11 (NΔFS 2011)							

^{*} 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)

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 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). 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 OR GLASS RETENTION SCREENING IS REQUIRED IN YOUR APPLICATION.

^c 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

^{**} Products 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

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