

VELUX®

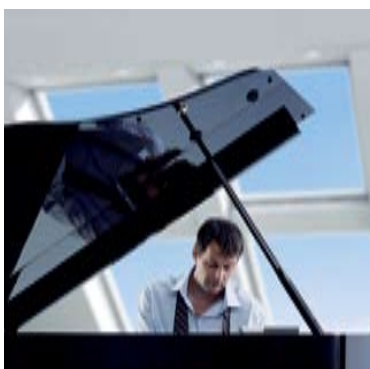
Skylights

Residential skylights

2007 edition



Bringing light to life™



Daylight is the essential element that transforms conventional rooms into the splendid spaces that add value and quality to your home and your life. And nothing brings in daylight like a VELUX skylight. Whether it's in the privacy of a master bath or in a social area like the kitchen, VELUX skylights bring the best of the outdoors inside with you.

In this residential product catalog, you will find detailed information on:

- Why VELUX skylights are the best choice
- How to choose your ideal VELUX products
- Our full line of skylights and accessories.

Additional resources

In addition to our residential product catalog, you may find the following resources to be helpful. These and other resources are available on our web site, www.veluxusa.com, or call customer service at 1-888-878-3589 for help.



Find a local dealer to purchase VELUX products.

www.veluxusa.com/dealer



Find an installer near you.

www.veluxusa.com/installer



Download product information from our literature library.

www.veluxusa.com/literature

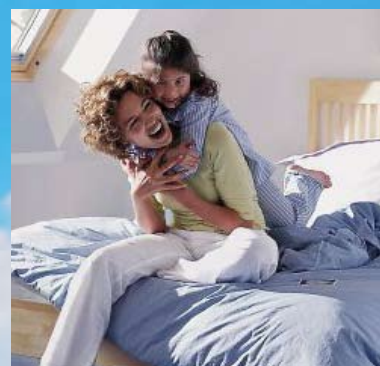


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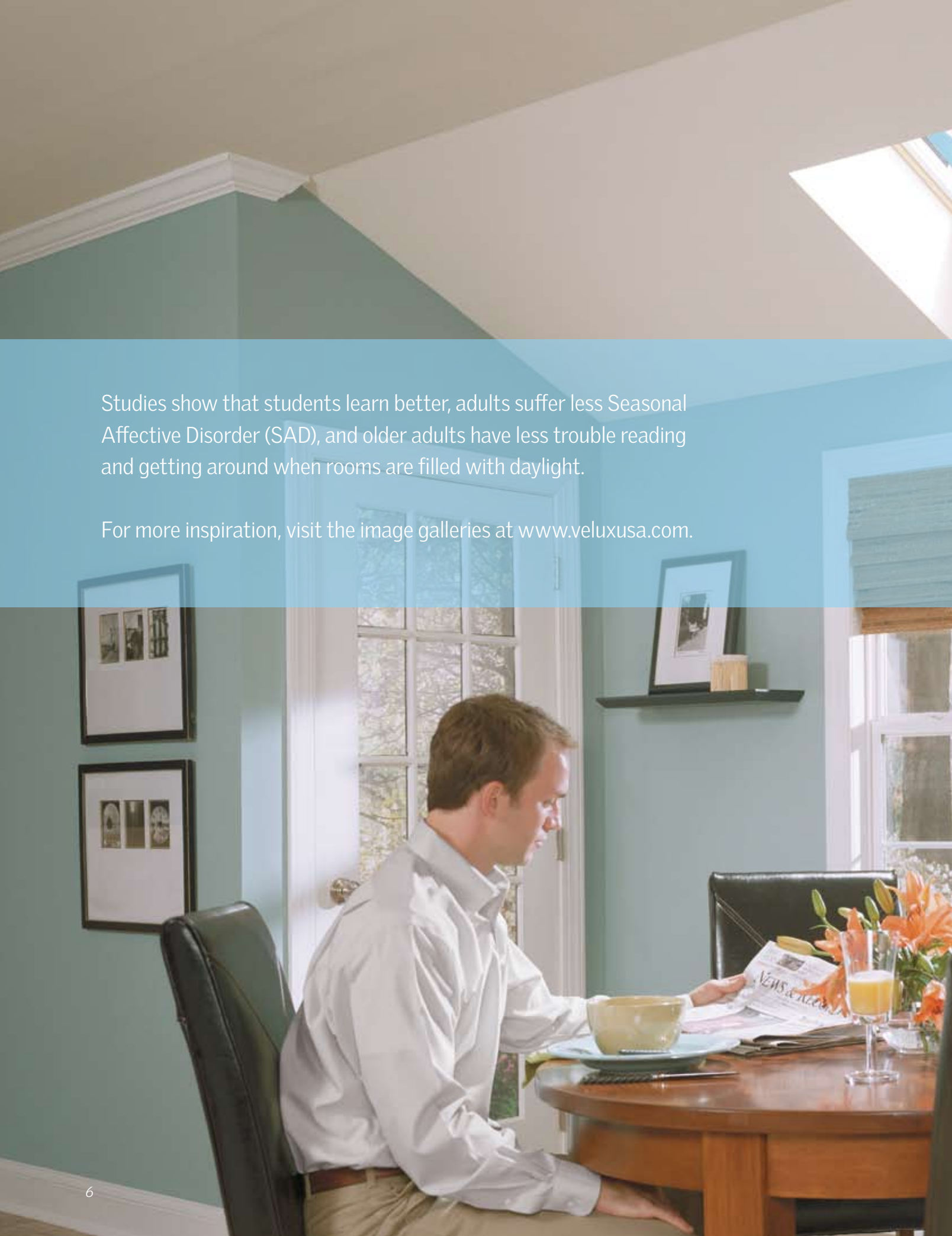


If you want to add beauty to your home and lift your spirits as you visually expand your rooms, consider the additional natural light that can be provided by skylights, roof windows and SUN TUNNEL™ skylights.

For more inspiration, visit the image galleries at www.veluxusa.com.





A man in a light blue shirt is seated at a round wooden dining table, reading a newspaper. The table is set with a bowl of cereal, a glass of orange juice, and a vase of orange lilies. The room has light blue walls, white crown molding, and a large skylight in the ceiling. A large window in the background shows a view of trees. Two framed pictures hang on the wall to the left, and a small shelf with a framed photo and a candle is on the wall to the right.

Studies show that students learn better, adults suffer less Seasonal Affective Disorder (SAD), and older adults have less trouble reading and getting around when rooms are filled with daylight.

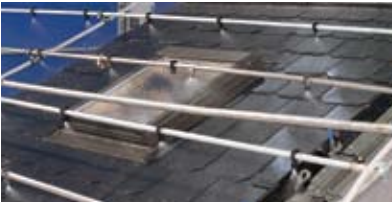
For more inspiration, visit the image galleries at www.veluxusa.com.



Why VELUX?

Leakproof

For over 60 years, VELUX has been engineering and manufacturing skylights to withstand the harshest of elements. Each product is subjected to rigorous air, water, and pressure testing before ever being brought to market. Each skylight is then combined with a custom tailored flashing system. That's why VELUX is the world leader and the preferred skylight brand worldwide.



Before introducing new products, VELUX uses wind tunnels during testing to subject them to real world wind and rain conditions.



Massive wind tunnel fans create hurricane force winds used in product tests.



Quality

When you decide to use VELUX roof windows or skylights, you can be sure that our dedication to providing exemplary products and services will not end with the completion of that project. We stand behind our products with a promise of lasting service and quality.

- Our warranty covers 20 years on insulated glass seal, 10 years on the skylight, roof window, flashing or SUN TUNNEL™ skylight and 5 years on blinds, controls and electronics.
- After more than 60 years, VELUX continues to be the world leader in the roof window and skylight industry.
- VELUX is the preferred skylight brand for American contractors according to every national survey of building industry professionals.
- VELUX holds more than 300 patents in roof window and skylight design.



Energy efficiency

By choosing VELUX skylights, you can promote energy efficiency and save money on utility bills, all while making your home brighter and more comfortable. VELUX insulated low-E tempered (comfort) and insulated low-E laminated (comfortplus) glazings:

- Offer three times more protection against solar heat gain.
- Resist condensation twice as long as clear glass.
- Protect interiors by reflecting the vast majority of the sun's fade-causing rays.

The complete system

VELUX offers a complete system for bringing daylight into virtually every space in your home. Take advantage of our 60+ years of experience and the solutions we offer for controlling natural light and fresh air.



Exterior heat control – Best protection against heat gain.

[Details on page 15.](#)



Weathertight flashings – Leak proof flashings are a must for every skylight.

[Details on pages 22 and 26.](#)



Skylights and roof windows – VELUX offers a range of skylights and roof windows with features for any need.

[Details on pages 17-32.](#)



Blinds and shades – Provide varying degrees of interior light control while saving you money on your energy bill.

[Details on page 15.](#)



Convenient controls – Handles, rods and electronic control systems provide easy operation of skylights and blinds.

[Details on page 16.](#)

Technology leader

At VELUX, innovation is the name of the game. We are constantly exploring new technologies and finding ways to apply them to better meet the needs of our customers. Here are a few of the latest examples of technologies that we have been working with.

Solar battery shades



This unique shade (currently available exclusively for skylight models FS and QFS) uses the sun to recharge itself, so that you can enjoy the convenience of an electric blind without any wiring to install.

The solar battery lightblock shade operates by remote control and charges automatically using only the sun. A single charge operates the shade over 500 times.



[Details about all blinds on page 15.](#)

Electric skylights

Our premium electric skylights are packed with features that make them the most convenient skylight option.



A single 14 gauge hard-wire connects directly into a standard junction box to provide power.

With no additional wiring, an electric interior blind, exterior awning or SageGlass® can be added.

An infrared remote control can operate multiple skylights and sunscreening blinds. It can also be programmed to close skylights after a set time period.



Rain sensors automatically close the skylight when it rains to provide complete protection from the elements.

The following electric skylights are available from VELUX:



Deck mounted
model VSE
[Details on page 19.](#)



Curb mounted
model VCE
[Details on page 24.](#)



Self-flashed
model QVE
[Details on page 28.](#)

Exclusive technology

Electronically tintable SageGlass®

The revolutionary new technology called electrochromic glass in VELUX electronically tintable skylights allows control of the amount of light and heat that enters a room.

The benefits of solar control through electrochromic glass include:

- Light control at the touch of a button without losing a view to the sky...even in the darkened state.
- Energy savings and elimination of uncomfortable heat gain, even on the brightest and hottest days.
- Maximum protection from fading of furniture or artwork.

Code compliance

VELUX skylights* meet the general requirements of the:

- ICC (International Code Council)
- ICC-ES (International Codes Council Evaluation Svc Inc.)
- IBC (International Building Code)
- IRC (International Residential Code)
- IECC (International Energy Conservation Code)
- Uniform Building Code.

In addition, all VELUX electrical components are UL listed. VELUX skylights* also meet or exceed the general requirements of Powersmart and the North American Fenestration Standard 101/I.S. 2/NAFS-02 and AAMA/WDMA/CSA 101/I.S. 2/A440-05 Standard/Specification for windows, doors and unit skylights.

In addition, VELUX skylights* are ENERGY STAR® qualified in every region of the country.

**FS, VSE, VS, QFS, QVE, QVM, VCE, VCM and FCM skylights*



How to choose

With VELUX, you have several choices, no matter how the house and roof are constructed. Before getting started and to help you make the best possible choice for your application, read the following steps:

1. Check your roof pitch to verify that it works with your intended products.

Installation method	Models	Roof pitch
Deck mounted skylights*	VSE, VS, FS	15° - 85°
Roof windows	GDL, GPL	Varies, details on page 21.
Curb mounted skylights	VCE**, VCM, FCM	0° - 60°
Self-flashed skylights	QVE, QVM, QFS	15° - 60°
SUN TUNNEL™ skylights	TGF, TGR, TMF, TMR	15° - 60°

** Installer built curbs can raise the pitch from 0° to the required minimum. Call VELUX customer service at 800-888-3589 for more information. **VCE size 4646 with laminated glazings should not be installed on a roof pitch less than 15°.*

2. Choose the ideal product category.

Product category	Application
Electric venting skylights	Overhead installations that need natural ventilation, especially kitchens and baths.
Manual venting skylights	In-reach or overhead installations, not requiring egress, where natural ventilation and manual operation is desired.
Roof windows	In-reach installations requiring egress emergency escape capabilities such as above-garage bonus rooms and finished attics.
Fixed skylights with a vent flap	Installations with only limited need for ventilation.
Fixed skylights	Installations where ventilation is not desired, but where a view to the outside would still be beneficial.
SUN TUNNEL™ skylights	Small spaces where natural daylight is the only requirement or where a traditional skylight shaft length would be more than 4 feet.



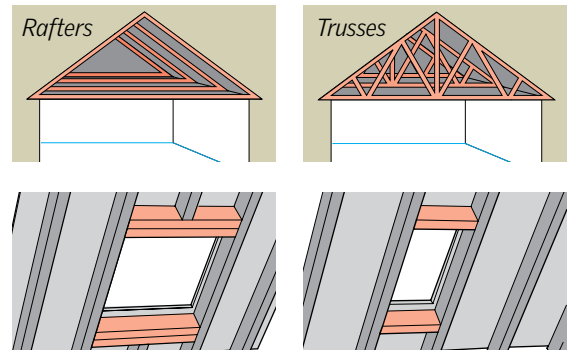
Download
architectural specs
for VELUX products.

www.veluxusa.com/specifications

3. Select the optimal size and configuration

In deciding the right size for your skylights it is usually best to factor in whether the roof was built with rafters or trusses.

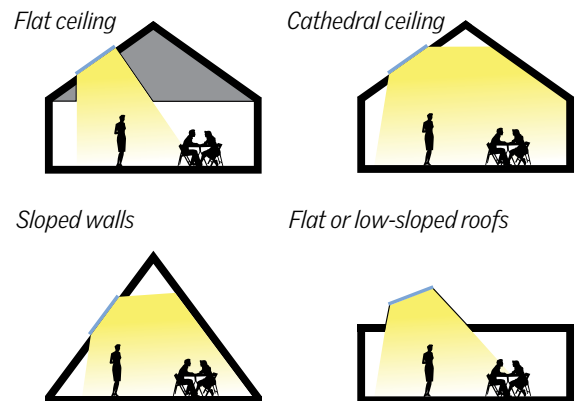
VELUX has several sizes that fit perfectly between trusses. Since trusses typically can not be cut, the effect of a wider skylight can be achieved by combining two smaller skylights together using VELUX combi-flashing.



See products and sizes on pages 33 - 35.

4. Identify your ceiling style

Your ceiling style determines how your skylight shaft can be constructed. The skylight shaft can have a major impact on the way daylight is delivered and on the architectural drama of your room.



Need an Installer?

- Use our installer locator at veluxusa.com/installer.
- Check with your local VELUX dealer.
- Contact VELUX Solutions at 866-358-3589.

VELUX Solutions offers a certification program for local independent installers. A VELUX Solutions Certified Installer is:

- Carefully screened by VELUX America Inc.
- Required to complete an extensive training program.
- Required to be in the construction industry for a minimum of 5 years.
- Licensed and insured.



Our certified installers offer guaranteed installation. Visit the installer locator on veluxusa.com/installer for more information. Not available in all areas.

How to choose

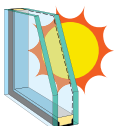


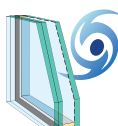
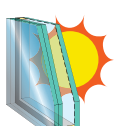
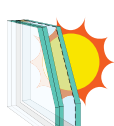
5. Select your glazing type (traditional skylights and roof windows only).

Most VELUX glass skylights and roof windows are available in a variety of glazing options, each designed to meet the needs of specific building situations. All VELUX glazings are built using energy efficient, low-E, Argon gas filled dual glass panes.

NOTICE: All GLASS MAY BE SUBJECT TO UNEXPECTED AND SPONTANEOUS BREAKAGE in rare circumstances due to imperfections in the glass that are undetectable during the manufacturing and inspection process by the manufacturer of the glass and VELUX.

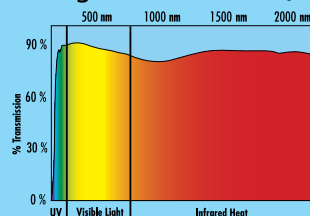
VELUX offers the choice of laminated or tempered glass skylights. SageGlass, Miami-Dade glass, impact glass and comfortplus glass are all types of laminated glass. Comfort glass is a type of tempered glass. Laminated glass is a combination of two or more glass sheets with one or more interlayers of plastic (PVB) or resin. In case of breakage, the interlayer is designed to hold the fragments together. Tempered glass does not contain an interlayer to hold the fragments together. Instead, tempered glass is designed to break into small, pebble-like pieces. When tempered glass breaks, pieces of glass come loose and may strike an individual.

CONSULT LOCAL REGULATIONS AND/OR BUILDING MATERIAL CONSULTANTS TO DETERMINE WHICH TYPE OF GLASS IS RIGHT FOR YOU OR IF LAMINATED GLASS IS REQUIRED IN YOUR APPLICATION.

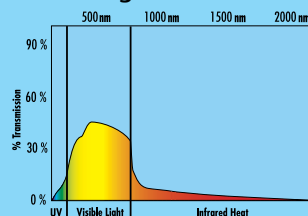
Glazing type	Features	Compatible models
 Tempered glass	Energy efficient tempered glass	VSE, VS, FS, VCE, VCM, FCM, QVE, QVM, QFS
 Laminated glass	Energy efficient, tempered, laminated safety glass	VSE, VS, FS, GPL, GDL, VCE, VCM, FCM, QVE, QVM, QFS
 Impact glass	Designed for hurricane prone areas	VSE, VS, FS, VCE, VCM, FCM, QVE, QVM, QFS
 Miami-Dade glass	Designed for high velocity hurricane areas	FCM
 SageGlass®	Revolutionary new electronically tinting glass	VSE, FS, VCE, FCM
 White laminated glass	Obscure white specialty glass that provides diffuse lighting	VSE, VS, FS, VCE, VCM, FCM, QVE, QVM, QFS

Benefits of VELUX® glazings

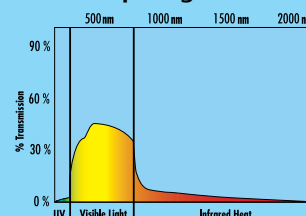
Clear glass (for reference only)



Comfort glass



Comfortplus glass



Unlike clear glass, energy efficient VELUX glazings provide substantial protection against unwanted infrared and UV rays.

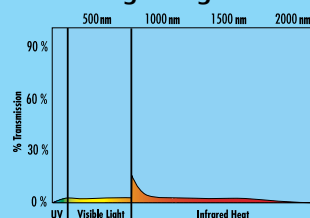
Note: Graphs represent approximate NFRC Vt values and independent SHGC testing.

6. Select your sunscreening accessories

Depending on the skylight model you select, a variety of blinds and controls are available.

Sunscreening accessory	Features	Compatible models
 SageGlass®	Maximum control of heat and light while maintaining a view	VSE, FS, VCE, FCM
 Venetian blind	Controls the light	VSE, VS, FS, GPL, GDL, QVE, QVM, QFS
 Cellular shade	Diffuses the light	VSE, VS, FS, FCM, QVE, QVM, QFS
 Solar battery lightblock shade	Blocks the light using solar energy	FS, QFS
 Lightblock shade	Blocks the light	VSE, FS, GPL, QVE, QFS
 Roller shade	Economical choice for light control	FS, GPL, GDL, QFS
 Heatblock exterior awning	Blocks the heat	VSE, VS, FS, GPL, FCM, QVE

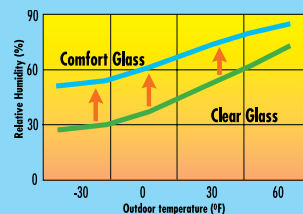
Comfort glazing + blinds



Add VELUX blinds and shades for even greater protection.

Note: Chart shows results with lightblock shade and heatblock awning.

Condensation resistance



With VELUX glazings, a home can contain up to 50% more humidity before condensation occurs.

Fading reduction















VELUX glazings protect interiors by controlling up to 83% of the sun's fading causing rays.

How to choose

7. Select your controls.

VELUX offers a variety of electric and manual controls to operate our venting skylights and blinds.

Controls		Models
	WCM 140 52 Conversion kit	VS, QVM
	WLI 160 Keypad	VSE, VS, FS, VCE, QVE, QVM, QFS
	WLC 160 Power supply	VS, FS, QVM, QFS
	WLR 160 Remote	VSE, VS, FS, VCE, QVE, QVM, QFS
	WLF 111 Interface	VSE, VCE
	KES 160 Supply/switch	VS, FS, FCM, QVM, QFS
	ZCT 300 Manual rod	VS, FS, VCM, FCM, QVM, QFS
	ZMT 300 Motorized rod	VS, FS, VCM, QVM, QFS
	ZCT 100 3' extension	VS, FS, VCM, QVM, QFS
	ZOZ 032 2' manual rod	VS, FS, QVM, QFS
	ZZZ 179W Replacement hook	VS, VCM, QVM
	ZZZ 169W or 180W Crank handles	VS, VCM, QVM
No picture available.	ZAZ 090 Cord pulley	FS, QFS

Skylight installation methods

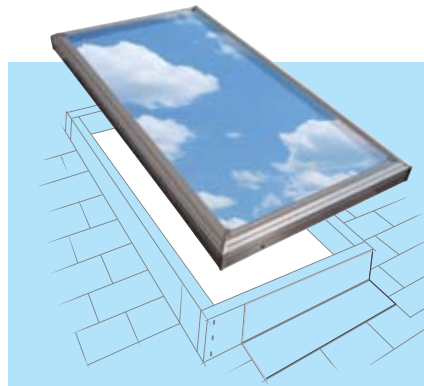


Deck mounted installation

Skylight with insulated glass lens, built-in wood frame combined with protective cladding mounts directly to the roof deck.

Engineered flashings integrate with roofing material to provide the most weathertight installation available (sold separately).

[Details on pages 18-22.](#)

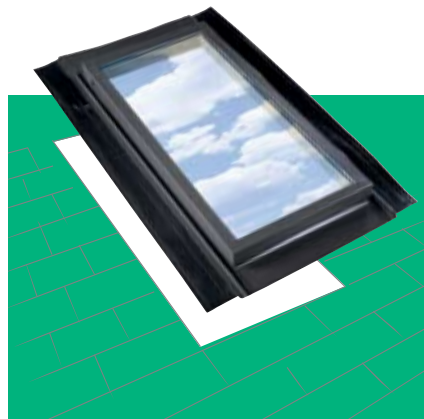


Curb mounted installation

Skylight with insulated glass lens, combined with a durable metal frame, mounts directly to a site-built curb.

Engineered flashing system designed for shingle roofing material available (sold separately) or use installer provided flashing.

[Details on pages 23-26.](#)



Self-flashed installation

Skylight with insulated glass lens, wood frame, protective cladding combined with factory installed flashing system that mounts directly to the roof deck.

Asphalt shingles are installed over the flashing for a weathertight installation.

[Details on pages 27-29.](#)



Tunnel installation

SUN TUNNEL™ skylight with UV resistant acrylic dome and diffuser, reflective tunnel, and one-piece flashing system mounts to the roof deck.

Roofing material is installed over the flashing for a weathertight installation.

[Details on pages 30-32.](#)

Why use deck mounted skylights?

Most watertight installation method available

As the world standard for over 60 years, VELUX deck mounted skylights have been proven in some of the most extreme weather around the world.



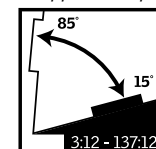
- Engineered flashing systems seal out water, wind and debris.
- Impact glazings available for hurricane prone areas.
- Designed to stand up to the harshest weather conditions.
- Great for all climatic regions of the United States, especially areas where ice, snow and freezing rain are prevalent.



Broadest range of installation options

- Engineered flashing systems available for most roofing materials on most roof pitches.
- Flashings and claddings available in heavy-duty aluminum or copper.
- Widest range of blinds, shades and accessories available.
- Only skylights with combi-flashing for grouping in dramatic patterns.
- Roof windows satisfy egress requirements for emergency escape.

Roof pitch/slope



Glazing options available.

[Details on page 14.](#)

Flashing systems available. (sold separately)

[Details on page 22.](#)

Blinds and controls available.

(sold separately)

[Details on pages 15 and 16.](#)

Venting skylight models

All VELUX deck mounted venting skylights come standard with a select wood frame and sash, insect screen and aluminum or copper cladding.

Each model includes pre-installed mounting brackets for an easier, more secure installation, and a stainless steel chain operator for smoother quieter operation.

[Sizes and product info on pages 33 - 35.](#)

Electric venting skylight - model VSE



The perfect daylighting solution for overhead applications. It brings in abundant natural light and opens to let in fresh air with the touch of a button. And it closes automatically in case of rain.

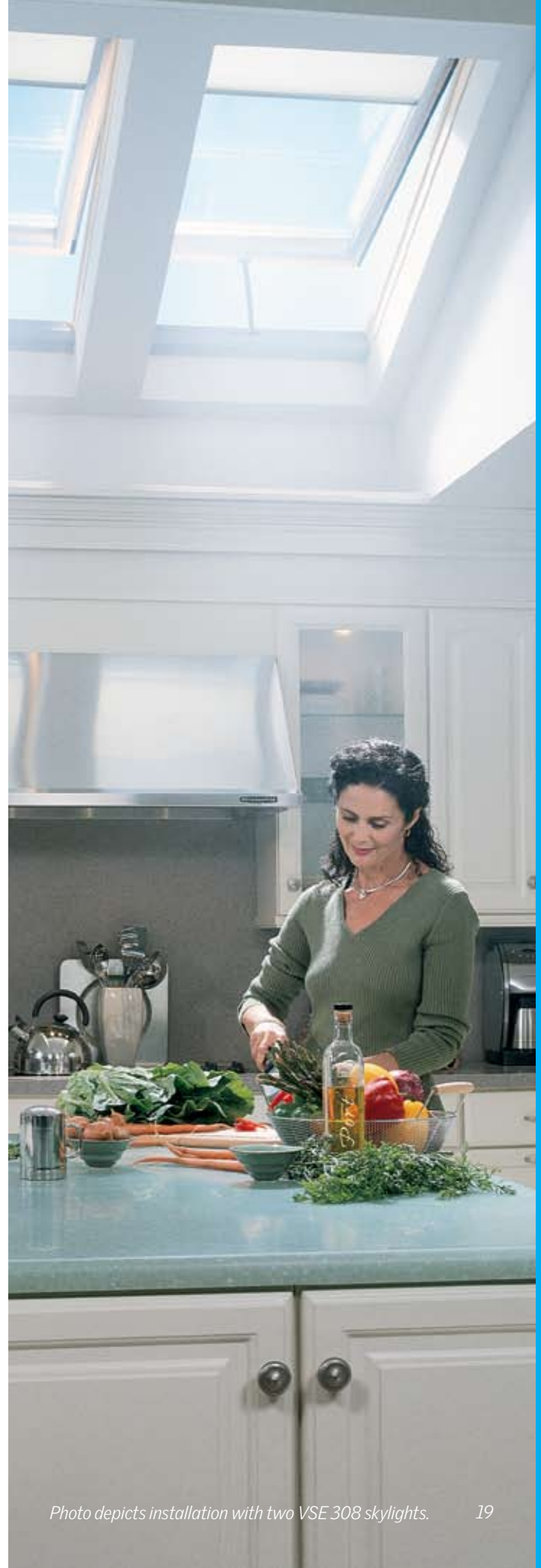
- Slimline remote control included.
- Concealed motor, control system and two rain sensors.
- Pre-wired for two sunscreening blinds.
- Single hard wire connects into a standard junction box.
- Wall mounted keypad (WLI 160) and interface to home automation systems (WLF 111) are optional.

Manual venting skylight - model VS



An economical solution for bringing abundant natural light and fresh air into the home, the VS manual venting skylight also contributes to a home's proper moisture balance and comfort level by allowing stale, humid air to be released.

- Opened and closed manually with VELUX control rods when out of reach.
- Smooth-turning handle for when the skylight is installed within reach.
- Manual to electric conversion kit available (WCM 140).



Fixed skylight models

All VELUX deck mounted fixed skylights come standard with a select wood frame, gasketing to drain condensation to the exterior and aluminum or copper cladding.

Each model also includes pre-installed mounting brackets for an easier, more secure installation.

[Sizes and product info on pages 33 - 35.](#)

Fixed skylight – model FS



An economical choice for visually expanding areas such as hallways, stairwells, and other closed-in, dark spaces that can be transformed with daylight and sky views.

- Features a select wood frame and protective aluminum or copper cladding.
- Integrated gaskets drain condensation to the outside.
- Streamlined exterior profile does not obstruct your roofline.

Working with trusses?



We have several sizes available that are designed specifically to work with 24" on center truss roofs. See the size charts at the end of this brochure for more information.

- Temporary positioning blocks make mounting the skylights over the roof opening fast and simple.
- Paint shield included (model FS only).

Roof window models

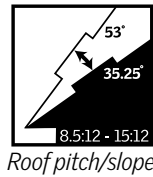
VELUX roof windows are designed for in-reach applications that require egress emergency escape capabilities. Examples include above-garage bonus rooms, lofts, and finished attic spaces.

Each model features a select wood frame and sash coated with a clear finish and exterior aluminum or copper cladding.

Roof windows also feature a ventilation flap that allows air circulation when the window is closed.

Sizes and product info on pages 33 - 35.

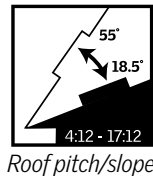
Note: Roof windows are not designed to be used in combination with skylights.



Balcony roof window – model GDL CABRIO™



- Dual-sash operation: Top opens for ventilation and bottom opens outward to create a roof balcony.
- Top sash rotates inward for easy glass cleaning from inside.



Top hinged roof window – model GPL



- Opens to a 45° angle to satisfy Egress requirements for emergency escape.
- Sash rotates inward for easy glass cleaning from inside.
- Optional insect screen available.



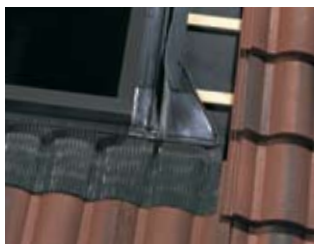
Photo depicts installation with two GDL CABRIO™ roof windows

Flashing systems



Shingles/shakes - Type EDL

- Step flashing pieces interweave with roofing material for proper water drainage.
- Additional step pieces (ZZZ 165) are required for shakes and other thick roofing materials.



Tile roofing – Type 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.



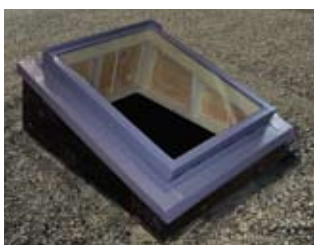
Metal roofing – Type EDM

- Flashing pieces interlock with roofing material for a fast, weathertight 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 – Type ECB

- Used with site-built curb on low-sloped roofs.
- No bending of flashing required.
- Applied to 2x4 lumber and plywood.
- Download curb construction guidelines at: www.veluxusa.com.



Roofing underlayment – ZOX 121

An alternative to roofing felt that wraps the skylight to provide added protection from extreme weather conditions such as ice and snow.



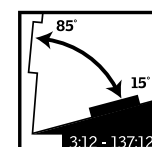
For combi applications

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.

Type EKM works with groupings on standing seam metal roofs and many profiled metal panels.

Note: Skylight applications require 4" over-and-under spacing and 2.5" - 12" side-by-side spacing.



Roof pitch/slope

Roof window combi-flashing (except for EKM) is available as a special order with varying lead-times. 4" spacing is required for both over-and-under and side-by-side spacing.



Skylight trim kit - ZZZ 189

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

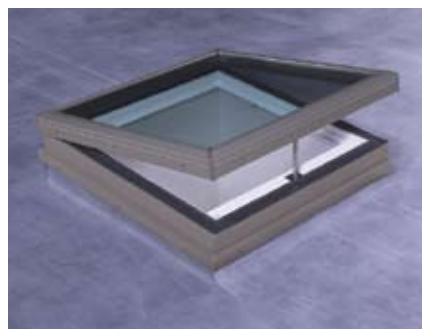
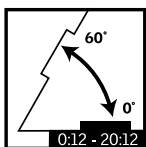
Why use curb mounted skylights?



Bubble replacement

Curb mounted skylights provide a quick and easy solution for replacing plastic bubbles with quality glass VELUX skylights.

Roof pitch/slope*



Flat roof applications

In addition to sloped roof applications, curb mounted skylights can be installed on completely flat or low sloped roof applications all the way up to a 60° roof pitch.

** VCE size 4646 with laminated glazings should not be installed on a roof pitch less than 15°.*

Glazing options available.

[Details on page 14.](#)

Flashing systems available.

(sold separately)

[Details on page 22.](#)

Blinds and controls available.

(sold separately)

[Details on page 15 and 16.](#)

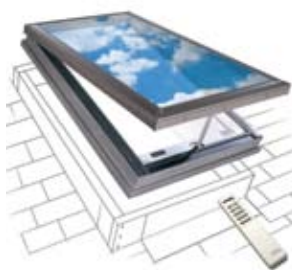
Venting skylight models

All VELUX curb mounted venting skylights are designed for simple and weathertight installation on a site-built curb. Each unit features a pre-finished white interior wood frame that insulates and strengthens the unit.

Each model includes a stainless steel chain operator for smoother quieter operation.

[Sizes and product info on pages 33 - 35.](#)

Electric venting skylight – model VCE



Brings in abundant natural light and opens with the touch of a button to let in fresh air. And it closes automatically in case of rain.

- Slimline remote control included.
- Concealed motor, control system and two rain sensors.
- Pre-wired for two sunscreening blinds.
- Single hard wire connects into a standard junction box.
- Wall mounted keypad (WLI 160) and interface to home automation systems (WLF 111) are optional.

Manual venting skylight – model VCM



An economical solution for bringing natural light and fresh air into the home.

- Opened and closed manually with VELUX control rods when out of reach.
- Smooth-turning handle for when the skylight is installed within reach.



Photo depicts installation with two VCE 3046 skylights.

Fixed skylight models

Fixed skylight – model FCM



Sizes and product info on pages 33 - 35.

The FCM curb mounted fixed skylight is sized to work with all types of site-built curbs, whether they're slightly out-of-square, pre-existing, or surrounded by unusually thick flashing and roofing material. Heavy-duty materials ensure the FCM skylight is built to withstand the installation process, as well as anything Mother Nature throws its way.

- No designated top, bottom or sides so you can install it in whatever direction you want.
- Maintenance free exterior.
- Integrated gasket provides a thermal break for energy efficiency and seals out water, wind and hassles for years.
- Choice of tempered or laminated low-E insulated glass.
- Impact glass and Miami-Dade glass available for hurricane prone areas.
- Electronically tintable glass available in sizes 2222 and 2246.
Call for more information.
- White laminated glass available for applications where diffused lighting is required.
- Wide range of custom sizes available.

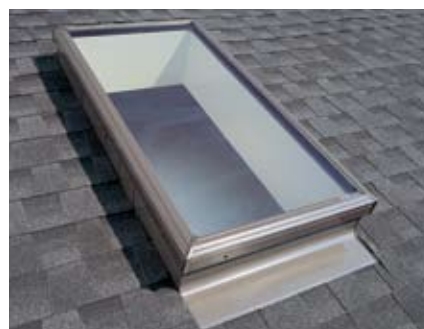
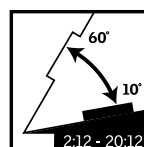


Photo depicts installation with one FCM 4646 skylight.

Flashing systems

VELUX has created an engineered step flashing system for curb mounted installations on low profile roofing materials such as shingles and shakes.

Roof pitch/slope



Shingle/low profile step flashing – type ECL

- For curb mounted skylights such as the VCE, VCM and FCM.
- Works with 2x6 or 2x4 site-built curbs made to standard dimensions.
- Designed for shingles or other low-profile roofing materials.



For installations on other roofing materials, a third party flashing system can be used.

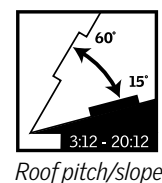
In many plastic bubble replacements, curb mounted skylights can be used with existing flashings and curbs.

Why use self-flashed skylights?



Quickest and easiest installation

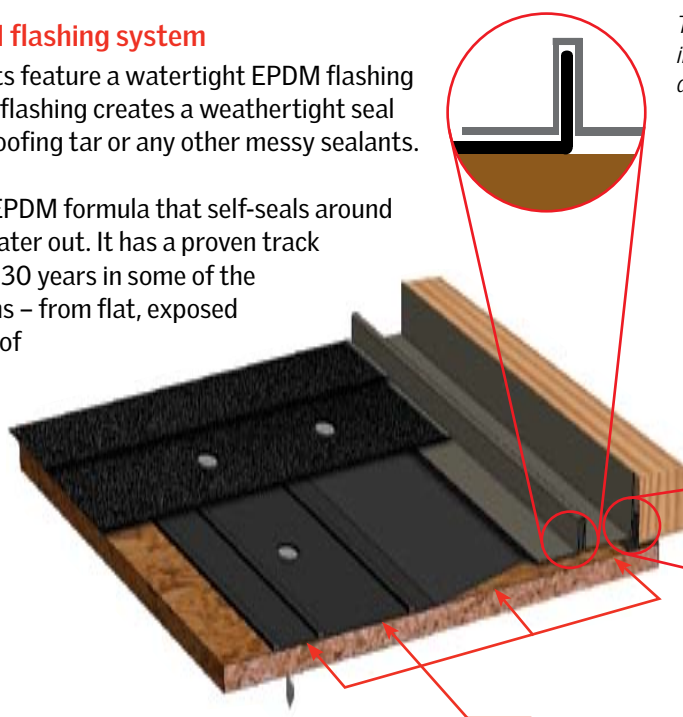
Designed for asphalt shingle roofs with roof pitches at 15°-60°, self-flashed skylights are the quickest and easiest to install.



Watertight EPDM flashing system

Self-flashed skylights feature a watertight EPDM flashing system. This unique flashing creates a weathertight seal without the use of roofing tar or any other messy sealants.

The key is a unique EPDM formula that self-seals around nail holes keeping water out. It has a proven track record of more than 30 years in some of the harshest applications – from flat, exposed roofs to the bottom of landscaping ponds.



The factory installed EPDM is actually incorporated inside the metal flashing rain diverter.

Includes a secondary gasket that provides dual protection.

Four integrated drainage channels provide four times the protection against the elements and control the flow of water away from the skylight.

Glazing options available.

[Details on page 14.](#)

Blinds and controls available

(sold separately)

[Details on pages 15 and 16.](#)

Venting skylight models

All VELUX self-flashed venting skylights come standard with a select wood frame, sash, insect screen and aluminum cladding.

Each model is sized perfectly to fit on truss roofs and includes pre-installed mounting brackets for an easier, more secure installation, and a stainless steel chain operator for smoother quieter operation.

[Sizes and product info on pages 33 - 35.](#)



Electric venting skylight – model QVE

The perfect daylighting solution for overhead applications. It brings in abundant natural light and opens to let in fresh air with the touch of a button. And it closes automatically in case of rain.

- Slimline remote control included.
- Concealed motor, control system and two rain sensors.
- Pre-wired for two sunscreening blinds.
- Single hard wire connects into a standard junction box.
- Wall mounted keypad (WLI 160) and interface to home automation systems (WLF 111) are optional.



Manual venting skylight – model QVM

An economical solution for bringing abundant natural light and fresh air into the home, the QVM manual venting skylight also contributes to a home's proper moisture balance and comfort level by allowing stale, humid air to be released.

- Opened and closed manually with VELUX control rods when out of reach.
- Smooth-turning handle for when the skylight is installed

within reach.

- Manual to electric conversion kit available (WCM 140).

Fixed skylight models

Fixed skylight - model QFS



An economical choice for visually expanding areas such as hallways, stairwells, and other closed-in, dark spaces that can be transformed with daylight and sky views.

Each model is sized perfectly to fit on truss roofs and includes pre-installed mounting brackets for an easier, more secure installation.

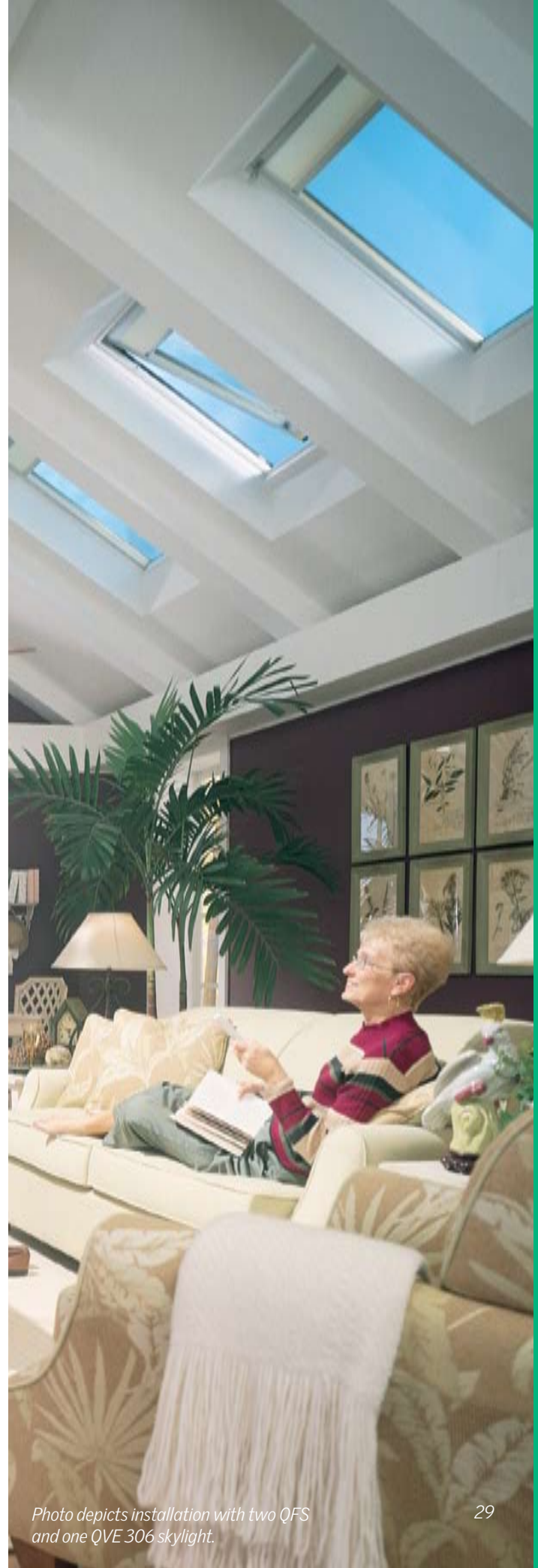
- Select wood frame, gasketing to drain condensation outside and aluminum cladding.
- Flexible EPDM side flashing eliminates the need for sealants.
- The quickest, simplest installing self-flashed skylight on the market.

Sizes and product info on [pages 33 - 35](#).

Replacing a skylight?



The new VELUX skylight trim kit (ZZZ 189) provides a clean interior finish, with no trim work required, when replacing older style roof windows and skylights.



Self-flashed installation

Photo depicts installation with two QFS and one QVE 306 skylight.

Why use SUN TUNNEL™ skylights?

Superior weatherability

Through their highly reflective tunnel and innovative design, VELUX SUN TUNNEL skylights can bring bright white daylight into small spaces and rooms where traditional skylights are not an option.

Easy and fast installation

With features like an adjustable pitch adapter, flexible tunnel options, and a pre-assembled ceiling ring installation is a snap.

Bright white daylight

While conventional incandescent bulbs create an unnatural yellow glow, VELUX SUN TUNNEL skylights bring bright, white, healthy daylight into small spaces and rooms where traditional skylights are not an option.

Roof pitch/slope

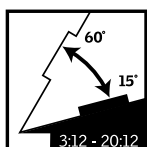


Photo depicts installation with one 14" model TMR.

Rigid SUN TUNNEL™ skylight models

Rigid SUN TUNNEL skylights feature a highly reflective rigid tunnel that provides bright, white daylight. These products are excellent for spaces that require a longer tunnel run or for areas with less sunlight.

Sizes and product info on pages 33 - 35.

Pitched - model TMR



The model TMR features a one piece pitched metal flashing that angles the tunnel to receive light from all directions.

- Great for roofs facing any direction.
- Provides straighter tunnel runs through many roof pitches.
- Tile flashing available.
- Impact models available for hurricane prone areas.

Low profile - model TGR



The model TGR features a low profile exterior that parallels the roof line for a sleek appearance.

- Great for South facing applications.
- Impact models available for hurricane prone areas.



Flexible SUN TUNNEL skylight models

Flexible SUN TUNNEL skylights are quick and easy to install. The flexible tunnel easily bends around attic obstructions. These products are excellent for spaces that don't require a long tunnel run or for sunny areas.

[Sizes and product info on pages 33 - 35.](#)

Pitched - model TMF



The model TMF features a one piece pitched metal flashing that angles the tunnel to receive light from all directions.

- Great for roofs facing any direction.
- Provides straighter tunnel runs through many roof pitches.
- Tile flashing available.
- Impact models available for hurricane prone areas.

Low profile - model TGF













The model TGF features a low profile exterior that parallels the roof line for a sleek appearance.

- Great for South facing applications.
- Tile flashing available for 21" units only.
- Impact models available for hurricane prone areas.

Product Sizes











To assist you in your planning, these charts provide the data useful in specifying and installing your VELUX skylights. Each model is shown with the available size measurements and other necessary information.

Models VSE and VS





Size code		 101	 104	 106	 108	 156	 304	 306	 308	 601	 606
Outside frame	in.	21 $\frac{1}{2}$ x 27 $\frac{3}{8}$	21 $\frac{1}{2}$ x 38 $\frac{3}{8}$	21 $\frac{1}{2}$ x 46 $\frac{1}{4}$	21 $\frac{1}{2}$ x 54 $\frac{15}{16}$	23 $\frac{5}{16}$ x 46 $\frac{3}{8}$	30 $\frac{9}{16}$ x 38 $\frac{3}{8}$	30 $\frac{9}{16}$ x 46 $\frac{1}{4}$	30 $\frac{9}{16}$ x 54 $\frac{15}{16}$	44 $\frac{3}{4}$ x 27 $\frac{3}{8}$	44 $\frac{3}{4}$ x 46 $\frac{1}{4}$
Finished framing	in.	20 $\frac{3}{8}$ x 26 $\frac{3}{16}$	20 $\frac{3}{8}$ x 37 $\frac{3}{16}$	20 $\frac{3}{8}$ x 45 $\frac{1}{16}$	20 $\frac{3}{8}$ x 53 $\frac{3}{4}$	22 $\frac{1}{2}$ x 45 $\frac{5}{16}$	29 $\frac{7}{16}$ x 37 $\frac{3}{16}$	29 $\frac{7}{16}$ x 45 $\frac{1}{16}$	29 $\frac{7}{16}$ x 53 $\frac{3}{4}$	43 $\frac{5}{8}$ x 26 $\frac{3}{16}$	43 $\frac{5}{8}$ x 45 $\frac{1}{16}$
Rough opening*	in.	21 $\frac{1}{2}$ x 27 $\frac{7}{8}$	21 $\frac{1}{2}$ x 38 $\frac{7}{8}$	21 $\frac{1}{2}$ x 46 $\frac{3}{4}$	21 $\frac{1}{2}$ x 55 $\frac{7}{16}$	22 $\frac{1}{2}$ x 45 $\frac{5}{16}$	30 $\frac{9}{16}$ x 38 $\frac{3}{8}$	30 $\frac{9}{16}$ x 46 $\frac{3}{4}$	30 $\frac{9}{16}$ x 55 $\frac{7}{16}$	44 $\frac{3}{4}$ x 27 $\frac{7}{8}$	44 $\frac{3}{4}$ x 46 $\frac{3}{4}$
Daylight area (glass)	in.	16 $\frac{3}{4}$ x 20 $\frac{13}{16}$	16 $\frac{3}{4}$ x 31 $\frac{7}{8}$	16 $\frac{3}{4}$ x 39 $\frac{3}{4}$	16 $\frac{3}{4}$ x 48 $\frac{3}{8}$	18 $\frac{1}{2}$ x 39 $\frac{3}{4}$	25 $\frac{7}{8}$ x 31 $\frac{7}{8}$	25 $\frac{7}{8}$ x 39 $\frac{3}{4}$	25 $\frac{7}{8}$ x 48 $\frac{3}{8}$	40 x 20 $\frac{13}{16}$	40 x 39 $\frac{3}{4}$
Ventilation area	sq. ft.	1.37	3.63	4.16	4.77	4.27	4.27	4.80	5.41	2.18	5.82
Net wt (temp. glass)	VSE/VS lbs.	41/38	50/47	59/55	65/64	62/58	64/57	73/71	82/80	65/65	96/93


* Rough opening for type EDL, EDM, EDW flashings.

Model FS



Size code		 056	 101	 104	 106	 108	 112	 150	 156	 302	 304
Outside frame	in.	15 $\frac{1}{4}$ x 46 $\frac{1}{4}$	21 $\frac{1}{2}$ x 27 $\frac{3}{8}$	21 $\frac{1}{2}$ x 38 $\frac{3}{8}$	21 $\frac{1}{2}$ x 46 $\frac{1}{4}$	21 $\frac{1}{2}$ x 54 $\frac{15}{16}$	21 $\frac{1}{2}$ x 70 $\frac{3}{4}$	23 $\frac{5}{16}$ x 23 $\frac{9}{16}$	23 $\frac{5}{16}$ x 46 $\frac{3}{8}$	30 $\frac{9}{16}$ x 30 $\frac{1}{2}$	30 $\frac{9}{16}$ x 38 $\frac{3}{8}$
Finished framing	in.	14 $\frac{3}{8}$ x 45 $\frac{1}{16}$	20 $\frac{3}{8}$ x 26 $\frac{3}{16}$	20 $\frac{3}{8}$ x 37 $\frac{3}{16}$	20 $\frac{3}{8}$ x 45 $\frac{1}{16}$	20 $\frac{3}{8}$ x 53 $\frac{3}{4}$	20 $\frac{3}{8}$ x 69 $\frac{3}{4}$	22 $\frac{1}{2}$ x 22 $\frac{1}{2}$	22 $\frac{1}{2}$ x 45 $\frac{5}{16}$	29 $\frac{7}{16}$ x 29 $\frac{9}{16}$	29 $\frac{7}{16}$ x 37 $\frac{3}{16}$
Rough opening	in.	14 $\frac{3}{8}$ x 46 $\frac{3}{4}$	21 $\frac{1}{2}$ x 27 $\frac{7}{8}$	21 $\frac{1}{2}$ x 38 $\frac{7}{8}$	21 $\frac{1}{2}$ x 46 $\frac{3}{4}$	21 $\frac{1}{2}$ x 55 $\frac{7}{16}$	21 $\frac{1}{2}$ x 71 $\frac{1}{4}$	22 $\frac{1}{2}$ x 22 $\frac{1}{2}$	22 $\frac{1}{2}$ x 45 $\frac{5}{16}$	30 $\frac{9}{16}$ x 31	30 $\frac{9}{16}$ x 38 $\frac{7}{8}$
Daylight area (glass)	in.	12 x 42 $\frac{15}{16}$	18 $\frac{3}{16}$ x 24 $\frac{1}{16}$	18 $\frac{3}{16}$ x 32 $\frac{3}{16}$	18 $\frac{3}{16}$ x 42 $\frac{15}{16}$	18 $\frac{3}{16}$ x 51 $\frac{5}{8}$	18 $\frac{3}{16}$ x 67 $\frac{7}{16}$	19 $\frac{15}{16}$ x 20 $\frac{1}{16}$	19 $\frac{15}{16}$ x 42 $\frac{15}{16}$	27 $\frac{7}{4}$ x 27 $\frac{1}{16}$	27 $\frac{7}{4}$ x 35 $\frac{1}{16}$
Net wt (w/ temp. glass) lbs.		33	28	37	43	49	63	26	46	41	48

Model FS (continued)


	 306	 308	 601	 606
	30 $\frac{9}{16}$ x 46 $\frac{1}{4}$	30 $\frac{9}{16}$ x 54 $\frac{15}{16}$	44 $\frac{3}{4}$ x 27 $\frac{3}{8}$	44 $\frac{3}{4}$ x 46 $\frac{1}{4}$
	29 $\frac{7}{16}$ x 45 $\frac{1}{16}$	29 $\frac{7}{16}$ x 53 $\frac{3}{4}$	43 $\frac{5}{8}$ x 26 $\frac{3}{16}$	43 $\frac{5}{8}$ x 45 $\frac{1}{16}$
	30 $\frac{9}{16}$ x 46 $\frac{3}{4}$	30 $\frac{9}{16}$ x 55 $\frac{7}{16}$	44 $\frac{3}{4}$ x 27 $\frac{7}{8}$	44 $\frac{3}{4}$ x 46 $\frac{3}{4}$
	27 $\frac{7}{4}$ x 42 $\frac{15}{16}$	27 $\frac{7}{4}$ x 51 $\frac{5}{8}$	41 $\frac{1}{16}$ x 24 $\frac{1}{16}$	41 $\frac{1}{16}$ x 42 $\frac{15}{16}$
	56	64	52	78

 Model VSE, VS and FS sizes that fit perfectly between roof trusses.
(see page 20 for additional information)

Model GPL

Size code		 M08	 S06
Outside frame	in.	30 $\frac{3}{8}$ x 55	44 $\frac{3}{4}$ x 46 $\frac{3}{8}$
Rough opening	in.	31 $\frac{1}{4}$ x 55 $\frac{1}{2}$	45 $\frac{1}{4}$ x 46 $\frac{7}{8}$
Daylight area (glass)	in.	23 $\frac{3}{4}$ x 45 $\frac{1}{4}$	37 $\frac{15}{16}$ x 36 $\frac{5}{8}$
Ventilation area (opening)	sq. ft.	11.34	11.64
Ventilation area (flap)	sq. in.	30.00	47.81
Net wt (w/ temp. glass)	lbs.	120	134

Model GDL

Size code		 P19
Outside frame	in.	37 $\frac{1}{16}$ x 99 $\frac{1}{4}$
Rough opening	in.	39 $\frac{3}{8}$ x 101
Daylight area (upper section)	in.	30 x 53 $\frac{3}{4}$
Daylight area (lower section)	in.	30 x 28 $\frac{3}{4}$
Ventilation area (upper section)	sq. ft.	22.5
Ventilation area (flap)	sq. in.	36.7
Net wt (w/ temp. glass)	lbs.	269

Product sizes

Models VCE and VCM

Size code		2222	2234	2246	3030	3046	3434	4646
Inside curb	in.	22½ x 22½	22½ x 34½	22½ x 46½	30½ x 30½	30½ x 46½	34½ x 34½	46½ x 46½
Outside curb	in.	25½ x 25½	25½ x 37½	25½ x 49½	33½ x 33½	33½ x 49½	37½ x 37½	49½ x 49½
Max. skylight clearance	in.	26¼ x 26¼	26¼ x 38¼	26¼ x 50¼	34¼ x 34¼	34¼ x 50¼	38¼ x 38¼	50¼ x 50¼
Daylight area (glass)	in.	20.62 x 18.62	20.62 x 30.709	20.62 x 42.72	28.62 x 26.69	28.62 x 42.72	32.62 x 30.709	44.62 x 42.72
Ventilation area	sq. ft.	1.46	3.84	4.73	2.01	5.13	4.65	6.50
Net weight (temp. glass) lbs.	VCE/VCM	62/54	83/77	93/85	85/80	113/112	99/98	133/144

Model FCM

Size code		1430	1446	2222	2230	2234	2246	2270	3030	3046	3434	4646
Inside curb	in.	14½ x 30½	14½ x 46½	22½ x 22½	22½ x 30½	22½ x 34½	22½ x 46½	22½ x 70½	30½ x 30½	30½ x 46½	34½ x 34½	46½ x 46½
Outside curb	in.	17½ x 33½	17½ x 49½	25½ x 25½	25½ x 33½	25½ x 37½	25½ x 49½	25½ x 73½	33½ x 33½	33½ x 49½	37½ x 37½	49½ x 49½
Max. skylight clearance	in.	18¼ x 34¼	18¼ x 50¼	26¼ x 26¼	26¼ x 34¼	26¼ x 38¼	26¼ x 50¼	26¼ x 74¼	34¼ x 34¼	34¼ x 50¼	38¼ x 38¼	50¼ x 50¼
Daylight area (glass)	in.	14½ x 30½	14½ x 46½	22½ x 22½	22½ x 30½	22½ x 34½	22½ x 46½	22½ x 70½	30½ x 30½	30½ x 46½	34½ x 34½	46½ x 46½
Net weight (w/ temp. glass) lbs.		35	46	23	42	32	40	65	37	51	52	86

Models QVE and QVM

Size code		150	152	156	302	306	656
Outside frame	in.	23¼ x 23¼	23¼ x 30½	23¼ x 46¼	30¾ x 30¾	30¾ x 46¼	47¼ x 46¼
Rough opening/ Finished framing	in.	22¼ x 22¼	22¼ x 29¾	22¼ x 45¼	29¼ x 29¾	29¼ x 45¼	46¼ x 45¼
Daylight area (glass)	in.	18½ x 16½	18½ x 24	18½ x 39¾	25¾ x 24	25¾ x 39¾	42½ x 39¾
Ventilation area (opening)	sq. ft.	1.28	2.88	4.27	3.67	4.80	5.70
Net wt (w/ temp. glass)	QVE/QVM lbs.	55/54	64/63	83/84	72/69	93/85	127/123

Testing data notes

a) Largest size units tested in accordance with one or more of: AAMA/WDMA 101/I. S.2/NAFS-02, AAMA/WDMA/CSA 101/I. S.2/A440-05, or ICC-ES Acceptance Criteria AC16 and AC17.

b) Performance data are determined for complete units at 20 degree slope, and verified in accordance with NFRC procedures (where applicable) by accredited entities.

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, ICC-ES recognition under Legacy Report NER-216, and/or ATI recognition under report CCRR-0104.

In addition, Florida and TDI have listed most variants in their product evaluation systems, and the FCM has achieved Miami-Dade approval. Additional approvals are pending.

Models QFS

Size code		150	152	156	302	306	656
Outside frame	in.	23¼ x 23¼	23¼ x 30½	23¼ x 46¼	30¾ x 30¾	30¾ x 46¼	47¼ x 46¼
Finished framing Rough opening	in.	22¼ x 22¼	22¼ x 29¾	22¼ x 45¼	29¼ x 29¾	29¼ x 45¼	46¼ x 45¼
Daylight area (glass)	in.	19¼ x 20¼	19¼ x 27¼	19¼ x 42¼	27¼ x 27¼	27¼ x 42¼	43¼ x 42¼
Ventilation area (opening)	sq. ft.	2.78	3.76	5.94	5.15	8.12	13.10
Net wt (w/ temp. glass)	lbs.	40	37	64	54	78	102

Product sizes

		Model TMR		Model TGR		Model TMF	Model TGF	
Size code		● 010	● 014	● 010	● 014	● 014	● 014	● 021
Outside flashing	in.	27 x 27	29 ³ / ₄ x 30 ⁵ / ₈	25 ¹ / ₂ x 25 ¹ / ₂	29 x 29	29 ³ / ₄ x 30 ⁵ / ₈	29 x 29	37 x 37
Rough opening (ceiling)	in.	10 ¹ / ₂	14 ¹ / ₂	10 ¹ / ₂	14 ¹ / ₂	14 ¹ / ₂	14 ¹ / ₂	22 ¹ / ₂
Rough opening (roof deck)	in.	14 ¹ / ₂ x 16	14 ¹ / ₂ x 20	14 ¹ / ₂ x 14 ¹ / ₂	14 ¹ / ₂ x 18	14 ¹ / ₂ x 20	14 ¹ / ₂ x 18	22 ¹ / ₂ x 26
Daylight area	sq. in.	65.29	137.82	65.29	137.82	137.82	137.82	314.00
Net wt (w/ acrylic)	lbs.	20	29	19	28	26	24	36
Standard tubing kit length	in.	43	43	43	43	8	8	6
Maximum recommended install length	ft.	14	18	14	18	8	8	12

Testing data

To assist with your planning, these charts provide the data useful for specifications and installation of your VELUX skylights. Each model is shown with available size measurements and other necessary information. For more detailed product information, visit our website at www.veluxusa.com.

Glazing option	VSE VS	FS	VCE VCM	FCM	QVE QVM	QFS
Air infiltration, l/s/m2 (cfm/ft2) at 75 Pa (1.57 lbf/ft2) air pressure						
All glazings	0.05 (0.01)	0.71 (0.14)	0.50 (0.10)	0.30 (0.06)	0.15 (0.03)	0.81 (0.16)
Water penetration "No entry" pressure, Pa (lbf/ft2) at 3.4 l/m/min (5 US gal/ft/hr) water flow						
All glazings	466.5 (9.75)	466.5 (9.75)	360 (7.5)	720 (15)	572 (12)	575 (12)
U-factor, (Btu/hr/ft2/°F)						
Laminated (74)	0.50	0.47	0.60	0.50	0.49	0.47
Tempered (75)	0.50	0.48	0.60	0.50	0.49	0.48
Solar heat gain, SHGC, %						
Laminated (74)	0.29	0.33	0.29	0.32	0.29	0.32
Tempered (75)	0.29	0.33	0.29	0.32	0.29	0.32
Visible transmittance, Vt, %						
Laminated (74)	0.48	0.48	0.48	0.53	0.48	0.53
Tempered (75)	0.49	0.49	0.49	0.53	0.49	0.54
Classical UV protection, %						
Laminated (74)	99.9	99.9	99.9	99.9	99.9	99.9
Tempered (75)	87	87	87	87	87	87
Total fading protection, %						
Laminated (74)	83	83	83	83	83	83
Tempered (75)	75	75	75	75	75	75
Downward load, lbf/ft2						
Laminated (74)	59 to 135	46 to 188	50	40 to 150	80	80
Tempered (75)	NA	NA	50	NA	NA	NA
Uplift load, lbf/ft2						
Laminated (74)	28 to 63	18 to 68	70	45 to 120	70	95
Tempered (75)	NA	NA	60	NA	NA	NA

Glazing option	TGR	TGF	TMR	TMF
Air infiltration, l/s/m2 (cfm/ft2) at 75 Pa (1.57 lbf/ft2) air pressure				
All glazings	1.22 (0.24)	1.22 (0.24)	1.27 (0.25)	1.27 (0.25)
Water penetration "No entry" pressure, Pa (lbf/ft2) at 3.4 l/m/min (5 US gal/ft/hr) water flow				
All glazings	574 (12)	574 (12)	395 (8.25)	395 (8.25)
U-factor, (Btu/hr/ft2/°F)				
Acrylic	0.42	0.43	0.42	0.43
Polycarbonate	0.42	0.43	0.42	0.43
Solar heat gain, SHGC, %				
Acrylic	0.40	0.35	0.40	0.35
Polycarbonate	0.40	0.35	0.40	0.35
Visible transmittance, Vt, %				
Acrylic	NA	NA	NA	NA
Polycarbonate	NA	NA	NA	NA
Downward load, lbf/ft2				
Acrylic	130	130	140	140
Polycarbonate	150	150	150	150
Uplift load, lbf/ft2				
Acrylic	45	45	80	80
Polycarbonate	90	90	140	140

VELUX®

Skylights



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