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 1-800-888-3589 for help.

- Find a local dealer to purchase VELUX products.
  www.veluxusa.com/dealer
- Find an installer near you.
  www.veluxusa.cominstaller
- Download product information from our literature library.
  www.veluxusa.com/literature

Commercial skylights
VELUX does have a full line of commercial skylights. For more in-depth information on our full line of commercial skylights.

Commercial skylights catalog XUS 20023
Table of contents

04 Inspiration
08 Why VELUX?
10 Technology leader
12 How to choose
17 Skylight installation methods
18 Deck mounted skylights
23 Curb mounted skylights
27 Self-flashed skylights
30 SUN TUNNEL™ skylights
33 Product sizes
35 Testing data
Rain sensors automatically close the skylight when it rains to provide complete protection from the elements.
A VELUX® venting skylight does more than add visual drama to a room. It helps remove gases, moisture, odors and other trapped volatile gasses (VOCs) via the chimney effect it creates. Making a home greener, healthier and more liveable.
An infrared remote control can operate multiple skylights and sunscreening blinds. It can also be programmed to close skylights after a set time period.
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.
VELUX®

Technological developments have revolutionized the window and skylight industry. Since 1941, VELUX has lead the skylight industry throughout the world and is now the world’s largest manufacturer of skylights. Today, with offices in more than 40 countries, we manufacture and sell energy efficient, durable skylights on all five continents from the United States to China and from Norway to Australia!

Quality
After more than 65 years, VELUX continues to be a leader in the roof window and skylight industry.

- VELUX is the preferred 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.

Leakproof
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.

Energy efficiency
VELUX is leading the industry by being the first manufacturer with all standard glass skylights meeting ENERGY STAR® approval guidelines for all climatic regions of the US. Promote energy efficiency and save money on utility bills – all while making your project brighter and more comfortable. VELUX insulated low-E tempered and insulated low-E laminated glazings:

- Offer three times more protection against solar heat gain.
- Resist condensation twice as long as clear glass.
- Protect interiors by reflecting most 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 65+ 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.

We all share a responsibility to the environment. That’s why VELUX continually improves our products and processes to make them environmentally friendly.
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. The solar battery lightblock shade should not be installed with clear glass.

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 sun screening 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.
Code compliance
VELUX skylights* meet the general requirements of the:
• 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, FCM skylights, and SUN TUNNEL™ skylights

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.
• Great protection from fading of furniture or artwork.
• An automatic timer mode can be set to darken the glass at a specified time each day.
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.

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

* Installer built curbs can raise the pitch from 0° to the required minimum. VELUX Model ECB Biepack Flashing Kit is designed to flash deck mounted skylights to the installer built curbs.

**VCE size 4646 with laminated glazings should not be installed on a roof pitch less than 10°.

2. Choose the ideal product category.

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

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 866-878-3589.

VELUX offers a Skylight Specialist program for local independent installers. A VELUX Skylight Specialist is:
- Carefully screened by VELUX.
- Required to complete an extensive training program.
- Provides the best solutions for your daylighting needs.

VELUX Skylight Specialists offer guaranteed installation. Visit the installer locator on veluxusa.com/installer for more information. Not available in all areas.
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.

### VELUX glazing type

<table>
<thead>
<tr>
<th>Features</th>
<th>Compatible models</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tempered</td>
<td>VS, FS, VCM, FCM, QVM, QFS</td>
</tr>
<tr>
<td>Laminated</td>
<td>VSE, VS, FS, GPL, GDL, VCE, VCM, FCM, QVE, QVM, QFS</td>
</tr>
<tr>
<td>Impact</td>
<td>VSE, VS, FS, VCE, VCM, FCM, QVE, QVM, QFS</td>
</tr>
<tr>
<td>Miami-Dade</td>
<td>FCM</td>
</tr>
<tr>
<td>SageGlass®</td>
<td>VSE, FS, VCE, FCM</td>
</tr>
<tr>
<td>White laminated</td>
<td>VSE, VS, FS, VCE, VCM, FCM, QVE, QVM, QFS</td>
</tr>
<tr>
<td>Snowload</td>
<td>VSE, VS, FS, VCE, VCM, FSM</td>
</tr>
</tbody>
</table>

**Benefits of VELUX® glazings**

- **Clear glass** (for reference only)
- **Tempered glazing**
- **Laminated glazing**

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 sunscreeing accessories

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

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

**Laminated 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 fade causing rays.
7. Select your controls.
VELUX offers a variety of electric and manual controls to operate our venting skylights and blinds.

<table>
<thead>
<tr>
<th>Controls</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>Convert manual to electric skylights</td>
<td>WCM 140 52</td>
</tr>
<tr>
<td>For wall-mounted operation</td>
<td>WLI 160</td>
</tr>
<tr>
<td>To power three electric blinds</td>
<td>WLC 160</td>
</tr>
<tr>
<td>To operate electric blinds and skylights</td>
<td>WLR 160</td>
</tr>
<tr>
<td>Sensor interface for automation systems</td>
<td>WLF 111</td>
</tr>
<tr>
<td>To power one electric blind</td>
<td>KES 160</td>
</tr>
<tr>
<td>6’ - 10’ rod for operation of manual skylights and blinds</td>
<td>ZCT 300</td>
</tr>
<tr>
<td>6’ - 10’ motorized rod for operation of manual skylights and blinds</td>
<td>ZMT 300</td>
</tr>
<tr>
<td>3’ extension for ZCT 300 and ZMT 300</td>
<td>ZCT 100</td>
</tr>
<tr>
<td>2’ rod for operation of manual skylights and blinds</td>
<td>ZOZ 032</td>
</tr>
<tr>
<td>Replacement hook for manual skylights</td>
<td>ZZZ 179W</td>
</tr>
<tr>
<td>Crank handle for manual skylights</td>
<td>ZZZ 169W or 180W</td>
</tr>
<tr>
<td>Cord pulley for roller shades</td>
<td>ZAZ 090</td>
</tr>
</tbody>
</table>
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**
VELUX 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 65 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.

Broadeest 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.
- Combi-flashing for grouping skylights in dramatic patterns.
- Roof windows satisfy egress requirements for emergency escape.

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).

Glazing note: The VSE is intended for out of reach applications and is only available with laminated low-E Argon filled glazing. This glazing eliminates the need to install a structural screen below the skylight as required by most building codes when non-laminated glass is used high overhead.
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).
• Prepainted white frames and sashes are now standard, eliminating the need to paint them on-site.
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.

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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.

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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.
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.

**Roofing underlayment – ZOZ 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 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.

**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 10˚.

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**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 sun screening 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.

Glazing note: The VCE is intended for out of reach applications and is only available with laminated low-E Argon filled glazing. This glazing eliminates the need to install a structural screen below the skylight as required by most building codes when non-laminated glass is used high overhead.

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.
Fixed skylight models

Fixed skylight – model FCM

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.

Sizes and product info on pages 33 - 35.
VELUX has created an engineered step flashing system for curb mounted installations on low profile roofing materials such as shingles and shakes.

**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.

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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 sunscreensing 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.

Glazing note: The QVE is intended for out of reach applications and is only available with laminated low-E Argon filled glazing. This glazing eliminates the need to install a structural screen below the skylight as required by most building codes when non-laminated glass is used high overhead.

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).
Better light

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.

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.

Select sizes are 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.
Why use SUN TUNNEL™ skylights?

Superior weatherability
An innovative seamless one-piece metal flashing keeps out leaks from even the harshest weather conditions. VELUX SUN TUNNEL skylights have a corrosion resistant exterior that will withstand the forces of nature.

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.

Light kit - model ZTL allows you to use the SUN TUNNEL™ skylight as an extra light source even at night.

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.

Photo depicts one 14" rigid SUN TUNNEL skylight.
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

<table>
<thead>
<tr>
<th>Size code</th>
<th>101</th>
<th>104</th>
<th>106</th>
<th>108</th>
<th>116</th>
<th>304</th>
<th>306</th>
<th>308</th>
<th>601</th>
<th>606</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Outside frame</strong> in.</td>
<td>21 1/2 x 27 1/2</td>
<td>21 1/2 x 27 1/2</td>
<td>21 1/2 x 38 1/2</td>
<td>21 1/2 x 38 1/2</td>
<td>21 1/2 x 46 1/2</td>
<td>21 1/2 x 46 1/2</td>
<td>30 1/2 x 38 1/2</td>
<td>30 1/2 x 46 1/2</td>
<td>44 1/4 x 27 1/4</td>
<td>44 1/4 x 46 1/4</td>
</tr>
<tr>
<td><strong>Finished framing</strong> in.</td>
<td>20 1/4 x 26 3/8</td>
<td>20 1/4 x 26 3/8</td>
<td>20 1/4 x 37 1/4</td>
<td>20 1/4 x 37 1/4</td>
<td>20 1/4 x 45 1/4</td>
<td>20 1/4 x 45 1/4</td>
<td>29 1/4 x 37 1/4</td>
<td>29 1/4 x 45 1/4</td>
<td>43 1/4 x 26 3/8</td>
<td>43 1/4 x 45 1/4</td>
</tr>
<tr>
<td><strong>Rough opening</strong> in.</td>
<td>21 1/2 x 27 1/2</td>
<td>21 1/2 x 27 1/2</td>
<td>21 1/2 x 38 1/2</td>
<td>21 1/2 x 38 1/2</td>
<td>21 1/2 x 46 1/2</td>
<td>21 1/2 x 46 1/2</td>
<td>30 1/2 x 38 1/2</td>
<td>30 1/2 x 46 1/2</td>
<td>44 1/4 x 27 1/4</td>
<td>44 1/4 x 46 1/4</td>
</tr>
<tr>
<td><strong>Daylight area (glass)</strong> in.</td>
<td>16 1/4 x 20 7/8</td>
<td>16 1/4 x 20 7/8</td>
<td>16 1/4 x 31 1/4</td>
<td>16 1/4 x 31 1/4</td>
<td>16 1/4 x 48 1/4</td>
<td>16 1/4 x 48 1/4</td>
<td>25 1/4 x 31 1/4</td>
<td>25 1/4 x 31 1/4</td>
<td>40 1/4 x 20 7/8</td>
<td>40 1/4 x 39 7/8</td>
</tr>
<tr>
<td><strong>Ventilation area</strong> sq. ft.</td>
<td>1.37</td>
<td>1.37</td>
<td>1.37</td>
<td>1.37</td>
<td>1.37</td>
<td>1.37</td>
<td>1.37</td>
<td>1.37</td>
<td>1.37</td>
<td>1.37</td>
</tr>
<tr>
<td><strong>Net wt (Lam. glass)</strong> VSE/VS lbs.</td>
<td>41/38</td>
<td>50/47</td>
<td>59/55</td>
<td>65/64</td>
<td>62/58</td>
<td>64/57</td>
<td>73/71</td>
<td>82/80</td>
<td>65/65</td>
<td>96/93</td>
</tr>
</tbody>
</table>

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

## Model FS

<table>
<thead>
<tr>
<th>Size code</th>
<th>056</th>
<th>101</th>
<th>104</th>
<th>106</th>
<th>108</th>
<th>112</th>
<th>150</th>
<th>156</th>
<th>302</th>
<th>304</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Outside frame</strong> in.</td>
<td>15 1/4 x 46 1/4</td>
<td>21 1/2 x 27 1/2</td>
<td>21 1/2 x 38 1/2</td>
<td>21 1/2 x 38 1/2</td>
<td>21 1/2 x 46 1/2</td>
<td>21 1/2 x 46 1/2</td>
<td>23 1/4 x 23 1/4</td>
<td>23 1/4 x 23 1/4</td>
<td>30 1/2 x 30 1/2</td>
<td>30 1/2 x 38 1/2</td>
</tr>
<tr>
<td><strong>Finished framing</strong> in.</td>
<td>14 1/4 x 45 1/4</td>
<td>20 1/4 x 26 3/8</td>
<td>20 1/4 x 37 1/4</td>
<td>20 1/4 x 37 1/4</td>
<td>20 1/4 x 45 1/4</td>
<td>20 1/4 x 45 1/4</td>
<td>22 1/4 x 22 1/4</td>
<td>22 1/4 x 22 1/4</td>
<td>29 1/4 x 29 1/4</td>
<td>29 1/4 x 37 1/4</td>
</tr>
<tr>
<td><strong>Rough opening</strong> in.</td>
<td>14 1/4 x 46 1/4</td>
<td>21 1/2 x 27 1/2</td>
<td>21 1/2 x 38 1/2</td>
<td>21 1/2 x 38 1/2</td>
<td>21 1/2 x 46 1/2</td>
<td>21 1/2 x 46 1/2</td>
<td>22 1/4 x 22 1/4</td>
<td>22 1/4 x 22 1/4</td>
<td>30 1/2 x 31 1/2</td>
<td>30 1/2 x 38 1/2</td>
</tr>
<tr>
<td><strong>Daylight area (glass)</strong> in.</td>
<td>12 1/2 x 42 1/4</td>
<td>18 1/4 x 24 1/4</td>
<td>18 1/4 x 35 1/4</td>
<td>18 1/4 x 35 1/4</td>
<td>18 1/4 x 42 1/4</td>
<td>18 1/4 x 42 1/4</td>
<td>18 1/4 x 51 1/4</td>
<td>18 1/4 x 51 1/4</td>
<td>19 1/4 x 20 1/4</td>
<td>19 1/4 x 35 1/4</td>
</tr>
<tr>
<td><strong>Net wt (w/ temp. glass)</strong> lbs.</td>
<td>33</td>
<td>28</td>
<td>37</td>
<td>43</td>
<td>49</td>
<td>63</td>
<td>26</td>
<td>46</td>
<td>41</td>
<td>48</td>
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</table>

## Model GPL

<table>
<thead>
<tr>
<th>Size code</th>
<th>M08</th>
<th>S06</th>
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<tbody>
<tr>
<td><strong>Outside frame</strong> in.</td>
<td>30 1/2 x 55</td>
<td>44 1/4 x 46 1/4</td>
</tr>
<tr>
<td><strong>Rough opening</strong> in.</td>
<td>31 1/4 x 55 7/8</td>
<td>45 1/4 x 46 1/4</td>
</tr>
<tr>
<td><strong>Daylight area (glass)</strong> in.</td>
<td>23 7/8 x 45 3/4</td>
<td>37 7/8 x 36 3/4</td>
</tr>
<tr>
<td><strong>Ventilation area (opening)</strong> sq. ft.</td>
<td>11.34</td>
<td>11.64</td>
</tr>
<tr>
<td><strong>Ventilation area (flap)</strong> sq. in.</td>
<td>30.00</td>
<td>478.1</td>
</tr>
<tr>
<td><strong>Net wt (w/Lam. glass)</strong> lbs.</td>
<td>111</td>
<td>123</td>
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## Model GDL

<table>
<thead>
<tr>
<th>Size code</th>
<th>P19</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Outside frame</strong> in.</td>
<td>37 3/4 x 99 7/8</td>
</tr>
<tr>
<td><strong>Rough opening</strong> in.</td>
<td>39 3/4 x 101</td>
</tr>
<tr>
<td><strong>Daylight area (upper section)</strong> in.</td>
<td>30 x 53 3/4</td>
</tr>
<tr>
<td><strong>Daylight area (lower section)</strong> in.</td>
<td>30 x 28 1/4</td>
</tr>
<tr>
<td><strong>Ventilation area (upper section)</strong> sq. ft.</td>
<td>22.5</td>
</tr>
<tr>
<td><strong>Ventilation area (flap)</strong> sq. in.</td>
<td>36.7</td>
</tr>
<tr>
<td><strong>Net wt (w/Lam. glass)</strong> lbs.</td>
<td>360</td>
</tr>
</tbody>
</table>
# Product sizes

## Models VCE and VCM

<table>
<thead>
<tr>
<th>Size code</th>
<th>2222</th>
<th>2234</th>
<th>2246</th>
<th>3030</th>
<th>3046</th>
<th>3434</th>
<th>4646</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inside curb in.</td>
<td>22% x 22%</td>
<td>22% x 34%</td>
<td>22% x 46%</td>
<td>30% x 30%</td>
<td>30% x 46%</td>
<td>34% x 34%</td>
<td>46% x 46%</td>
</tr>
<tr>
<td>Outside curb in.</td>
<td>25% x 25%</td>
<td>25% x 37%</td>
<td>25% x 49%</td>
<td>33% x 33%</td>
<td>33% x 49%</td>
<td>37% x 37%</td>
<td>49% x 49%</td>
</tr>
<tr>
<td>Max. skylight clearance in.</td>
<td>26% x 26%</td>
<td>26% x 38%</td>
<td>26% x 50%</td>
<td>34% x 34%</td>
<td>34% x 50%</td>
<td>38% x 38%</td>
<td>50% x 50%</td>
</tr>
<tr>
<td>Daylight area (glass) in.</td>
<td>20.62 x 18.62</td>
<td>20.62 x 30.709</td>
<td>20.62 x 42.72</td>
<td>28.62 x 26.69</td>
<td>28.62 x 42.72</td>
<td>32.62 x 30.709</td>
<td>44.62 x 42.72</td>
</tr>
<tr>
<td>Ventilation area sq. ft.</td>
<td>146</td>
<td>83.77</td>
<td>93.65</td>
<td>85.80</td>
<td>113.12</td>
<td>99.98</td>
<td>133.14</td>
</tr>
<tr>
<td>Net weight (Lam. glass) lbs. VCE/VCM</td>
<td>60/54</td>
<td>83/77</td>
<td>93/65</td>
<td>85/80</td>
<td>113/12</td>
<td>99/98</td>
<td>133/14</td>
</tr>
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</table>

## Model FCM

<table>
<thead>
<tr>
<th>Size code</th>
<th>1430</th>
<th>1446</th>
<th>2222</th>
<th>2230</th>
<th>2234</th>
<th>2246</th>
<th>2270</th>
<th>3030</th>
<th>3046</th>
<th>3434</th>
<th>4646</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inside curb in.</td>
<td>14% x 30%</td>
<td>14% x 46%</td>
<td>22% x 22%</td>
<td>22% x 30%</td>
<td>22% x 46%</td>
<td>22% x 46%</td>
<td>22% x 70%</td>
<td>30% x 30%</td>
<td>30% x 46%</td>
<td>34% x 34%</td>
<td>46% x 46%</td>
</tr>
<tr>
<td>Outside curb in.</td>
<td>17% x 33%</td>
<td>17% x 49%</td>
<td>25% x 25%</td>
<td>25% x 33%</td>
<td>25% x 37%</td>
<td>25% x 49%</td>
<td>25% x 73%</td>
<td>33% x 33%</td>
<td>33% x 49%</td>
<td>37% x 49%</td>
<td>49% x 49%</td>
</tr>
<tr>
<td>Max. skylight clearance in.</td>
<td>18% x 34%</td>
<td>18% x 50%</td>
<td>26% x 26%</td>
<td>26% x 34%</td>
<td>26% x 38%</td>
<td>26% x 50%</td>
<td>26% x 74%</td>
<td>34% x 34%</td>
<td>34% x 50%</td>
<td>38% x 38%</td>
<td>50% x 50%</td>
</tr>
<tr>
<td>Daylight area (glass) in.</td>
<td>14% x 30%</td>
<td>14% x 46%</td>
<td>22% x 22%</td>
<td>22% x 30%</td>
<td>22% x 46%</td>
<td>22% x 46%</td>
<td>22% x 70%</td>
<td>30% x 30%</td>
<td>30% x 46%</td>
<td>34% x 34%</td>
<td>46% x 46%</td>
</tr>
<tr>
<td>Net weight (w/ temp. glass) lbs.</td>
<td>35</td>
<td>46</td>
<td>23</td>
<td>42</td>
<td>32</td>
<td>40</td>
<td>65</td>
<td>37</td>
<td>51</td>
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## Models QVE and QVM

<table>
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<tr>
<th>Size code</th>
<th>150</th>
<th>152</th>
<th>156</th>
<th>302</th>
<th>306</th>
<th>656</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside frame in.</td>
<td>23% x 23%</td>
<td>23% x 30%</td>
<td>23% x 46%</td>
<td>30% x 30%</td>
<td>30% x 46%</td>
<td>47% x 46%</td>
</tr>
<tr>
<td>Rough opening/Finished framing in.</td>
<td>22% x 22%</td>
<td>22% x 29%</td>
<td>22% x 45%</td>
<td>29% x 29%</td>
<td>29% x 45%</td>
<td>46% x 45%</td>
</tr>
<tr>
<td>Daylight area (glass) in.</td>
<td>18% x 18%</td>
<td>18% x 24</td>
<td>18% x 39%</td>
<td>25% x 24</td>
<td>25% x 39%</td>
<td>42% x 39%</td>
</tr>
<tr>
<td>Ventilation area (opening) sq. ft.</td>
<td>1.28</td>
<td>2.88</td>
<td>4.27</td>
<td>3.67</td>
<td>4.80</td>
<td>5.70</td>
</tr>
<tr>
<td>Net wt (Lam. glass) QVE/QVM lbs.</td>
<td>55/54</td>
<td>64/63</td>
<td>83/84</td>
<td>72/89</td>
<td>93/85</td>
<td>127/123</td>
</tr>
</tbody>
</table>

## Models QFS

<table>
<thead>
<tr>
<th>Size code</th>
<th>150</th>
<th>152</th>
<th>156</th>
<th>302</th>
<th>306</th>
<th>656</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside frame in.</td>
<td>23% x 23%</td>
<td>23% x 30%</td>
<td>23% x 46%</td>
<td>30% x 30%</td>
<td>30% x 46%</td>
<td>47% x 46%</td>
</tr>
<tr>
<td>Rough opening</td>
<td>22% x 22%</td>
<td>22% x 29%</td>
<td>22% x 45%</td>
<td>29% x 29%</td>
<td>29% x 45%</td>
<td>46% x 45%</td>
</tr>
<tr>
<td>Daylight area (glass) in.</td>
<td>19% x 20%</td>
<td>19% x 27%</td>
<td>19% x 42%</td>
<td>27% x 27%</td>
<td>27% x 42%</td>
<td>43% x 42%</td>
</tr>
<tr>
<td>Ventilation area (opening) sq. ft.</td>
<td>2.78</td>
<td>3.76</td>
<td>5.94</td>
<td>5.15</td>
<td>8.12</td>
<td>13.10</td>
</tr>
<tr>
<td>Net wt (w/ temp. glass) lbs.</td>
<td>40</td>
<td>37</td>
<td>64</td>
<td>54</td>
<td>78</td>
<td>102</td>
</tr>
</tbody>
</table>

### 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.
### Testing data

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

<table>
<thead>
<tr>
<th>Glazing option</th>
<th>VSE</th>
<th>VS</th>
<th>FS</th>
<th>VCE</th>
<th>VCM</th>
<th>FCM</th>
<th>QVE</th>
<th>QVM</th>
<th>QFS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air infiltration, l/s/m² (cfm/ft²) at 75 Pa (1.57 lbf/ft²) air pressure</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All glazings</td>
<td>0.10 (0.02)</td>
<td>0.71 (0.14)</td>
<td>0.41 (0.08)</td>
<td>0.30 (0.06)</td>
<td>0.36 (0.07)</td>
<td>0.25 (0.05)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Water penetration “No entry” pressure, Pa (lbf/ft²) at 3.4 l/m/min (5 US gal/ft/hr) water flow</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All glazings</td>
<td>466.5 (9.75)</td>
<td>466.5 (9.75)</td>
<td>360 (7.5)</td>
<td>720 (15)</td>
<td>580 (12)</td>
<td>580 (12)</td>
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<td><strong>U-factor, (Btu/hr/ft²/°F)</strong></td>
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<td><strong>Solar heat gain, SHGC, %</strong></td>
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<td><strong>Visible transmittance, Vt, %</strong></td>
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<td><strong>Classical UV protection, %</strong></td>
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<td><strong>Uplift load, lbf/ft²</strong></td>
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