

**VELUX®**

Skylights

Create better living environments

1 April 2014

70  
years  
of innovation

HOOFIANG & PROFILES (FIJI) LTD



0800 650 445  
[www.velux.co.nz](http://www.velux.co.nz)

*Bringing light to life™*

## Create Clever spaces

**Transforming your living or working spaces doesn't need to be expensive, just clever!** Skylights are a wise alternative to vertical windows, helping you create more usable wall or living space or achieve privacy when you need it. Use VELUX Skylights to create versatile spaces flooded with Daylight and Fresh Air through the roof.

## Create Energy Efficient spaces

**Save energy and lower your bills!** Promote energy efficiency and save money on bills – all while making your living or working spaces lighter and more comfortable. VELUX Skylights provide an energy wise alternative to mechanical ventilation and reduce the need for electric lighting during the day.

## Create Healthy spaces

**Improve indoor climate and lift your spirits!** Maximum daylight and ventilation are preconditions to ensuring optimal indoor comfort and minimal energy consumption. Skylights give you more Daylight and use the natural movement of air to extract moisture and other allergens, making healthier, environment friendly and more comfortable spaces.

*Bringing light to life™*

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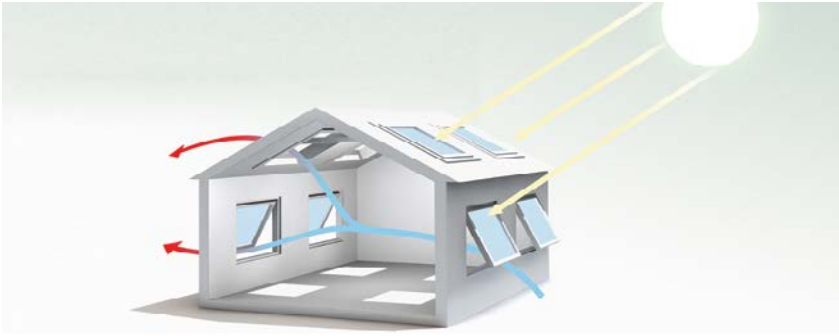
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# Why VELUX Skylights?



## Energy wise with VELUX Skylights

At VELUX we look at the home as a whole – a place where Daylight, Fresh Air and Energy Efficiency constitute the conditions for a comfortable home, a home that uses the Sun to reduce energy consumption and which, through natural ventilation helps to create a healthier and more comfortable indoor environment.

### Free Daylight

VELUX skylights reduce the need for electric lighting during the day and, with excellent thermal performance, contribute to an energy efficient home.

In similar conditions VELUX skylights have shown to provide at least twice as much daylight as vertical windows of the same size (Danish Building Research Institute).

### Efficient Ventilation using the "stack effect"

The primary purpose of ventilation is to remove undesired airborne substances from the building, especially allergens and moisture.

Opening Skylights used in combination with vertical windows provide fast and efficient ventilation, perfect for those hot, stuffy summer days.

## We are committed to sustainability

Sustainability is a pivotal issue for the VELUX Group's key goals, actions and solutions. As a group, we have an ambitious climate strategy in place to reduce our CO<sub>2</sub> emissions by 50% before 2020.

As players in the construction industry, we feel it is our responsibility to contribute to the development of sustainable ways of building and inspire the future of modern living. We believe that the way forward should be more than a one-sided focus on insulation capacity and reduction of the energy used for heating or cooling of buildings.

We want to show the way forward and find the possibilities inherent in developing energy efficient buildings of the future in a holistic way. We have therefore decided to test new innovations and take an active part in developing sustainable buildings, practically by building real houses. We have launched the project Model Home 2020 – our vision for climate-neutral buildings with high levels of comfort for the people living in them. Currently, we have built 6 houses in Europe and through development, construction and documentation, we will demonstrate how daylight and fresh air can strike a balance between energy, aesthetics and comfort - with a focus on the individual.

The photographs featured in this catalogue are for illustration purposes only. Please check your building code requirements with your local authority.



About Model Home 2020

[velux.co.nz/model\\_home\\_2020](http://velux.co.nz/model_home_2020)




# Why VELUX Skylights?

## Proven Quality

- Quality is our priority
- 70 years of innovation
- Preferred brand by Architects, Designers and Builders
- More than 300 patents in Roof Windows and Skylights

## Tested to the following standards\*:

-  ENERGY STAR PARTNER
- **Thermal resistance of complete unit:**  
EN ISO 12567-2, NFRC 102, NFRC 100
- **Solar Heat gain coefficient g:**  
EN 410, NFRC 200
- **UV light reduction:**  
EN 410, NFRC 300
- **Sound reduction of complete unit in dB:**  
EN ISO 717-1
- **Watertightness; Non-cyclonic & Cyclonic wind pressure:**  
AS4285 Australian Skylight Standards

## Energy Efficiency

- All VELUX Skylights have excellent Thermal performance (R-values)
- Are Double glazed
- Argon gas filled for better insulation
- Low E<sup>2</sup>/E<sup>3</sup> coated
- Cut out at least 95% of UV rays

## Peace of Mind

- VELUX products are designed to withstand the harshest of elements
- All products have been subject to rigorous air, water and pressure testing
- We stand behind our products with a promise of lasting service and a comprehensive warranty.



\* For Energy Star information please refer to p.13  
\* For detailed technical data please refer to p.32-33

## VELUX group history

VELUX is a global company found on a vision of Daylight, Fresh Air and Quality of life. With offices in almost 40 countries, the VELUX group provides energy efficient living solutions and durable products across the globe.

### 1941-1950: The formation of the company began in Denmark.

- The first VELUX roof window was developed in 1942
- The VELUX name is derived from two words – Ventilation and Lux, the Latin word for light.
- **1981: The first VELUX roof window was sold in New Zealand**
- VELUX New Zealand Limited was established in 1995
- VELUX products are sold across New Zealand through leading building merchants.
- A dedicated sales team and technical support staff are available to offer assistance throughout New Zealand.



Learn more about  
VELUX Skylights

WWW

velux.co.nz/About\_Velux

# Create Light



## Create Light to Inspire.

We all take pride in our homes. We like to make sure they're well presented, unique, functional and comfortable to live in. That's where daylight can play such an important role. Light creates a positive atmosphere and alters the way we feel about our living space. Its many moods and

variations, can help you make a house feel like a real home. Daylight from skylights transforms the way your home appears; not only increasing the feeling of space and visual interest but providing a greater sense of well-being.



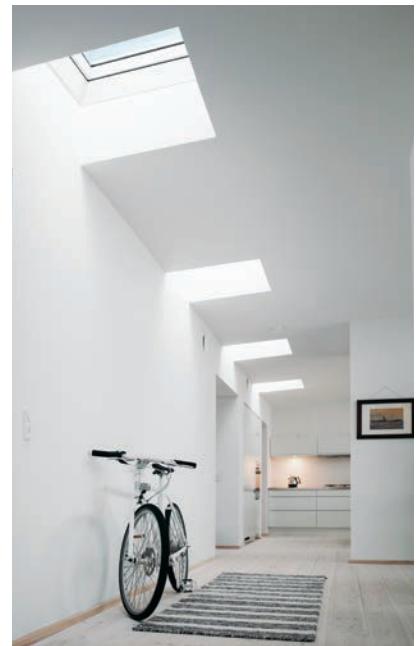
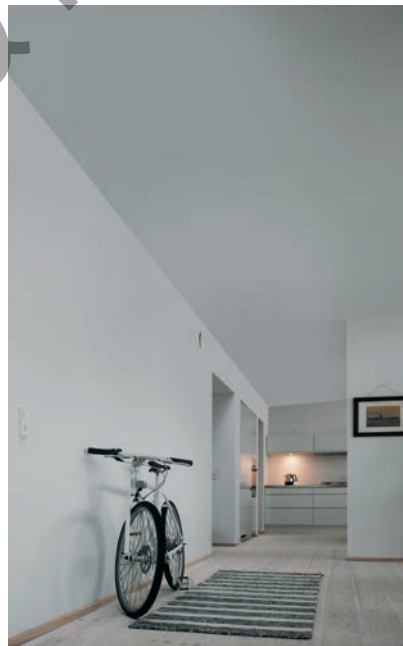
### Express yourself ▲

Letting Daylight into your home is just the beginning. How you do this is the exciting part! Think of it the same way as paint or fabric. You can splash it across the wall, over furniture or cover an entire room in it. The possibilities are endless.



### Set the mood ▲

Light can have a dramatic effect on the mood of a room and how we feel towards it. A kitchen for example, with the breakfast table basking in Daylight from above, can become a gathering place for the whole family.



### Turn up the light ▲

By adding extra light from above, you can turn dark or uninviting areas of your home, into bright and spacious environments.



# Create Space



Create Space  
to breathe.

In most homes space comes at a premium. Some need more space as the family grows, while others need a better layout to improve the look and feel of their home. Using VELUX Skylights can

increase usable space and improve room layouts, while adding Daylight and Fresh Air from above, creating an inviting and comfortable living space.





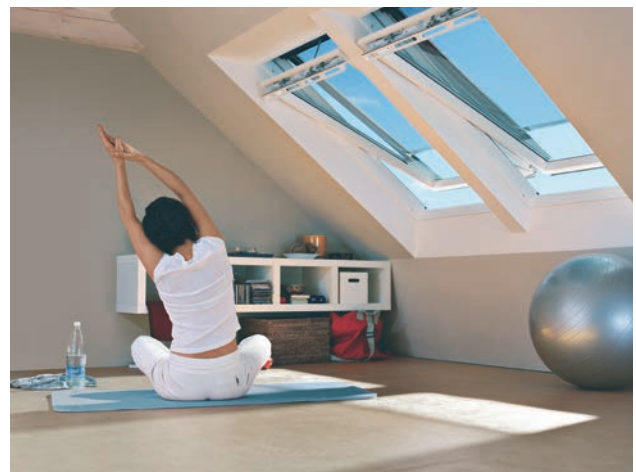
### Open up Space ▲

Even a simple VELUX solution can have a dramatic effect. By adding a VELUX Skylight, you can transform a small and dull room into a versatile living space filled with Daylight and Fresh Air through the roof.



### Play with layout ▲

Using VELUX Skylights, as an alternative to vertical windows, allows you to free up valuable wall space and create essential room for shelves, cupboards, storage and decoration.



### Move up ▲

Breathing light and life into your loft has never been easier. By installing a VELUX Skylight, you can transform your unused attic space into an office, spare room or just another entertaining area.

# Create Privacy



Create Privacy  
to indulge.

In today's homes, privacy is sometimes hard to find without closing the doors and covering the windows. Installing a VELUX Skylight

will not only provide the privacy you need but will bring Daylight, create better views and add Fresh Air to your home.



### Create a sanctuary

In bathrooms a VELUX Skylight offers an alternative to vertical windows, providing the drama of natural light, while giving you the privacy you want.

By installing a VELUX Skylight you can create your very own personal oasis, filled with Daylight and Fresh Air from above. Bathe in sunlight during the day and star gaze at moonlight, in total privacy!



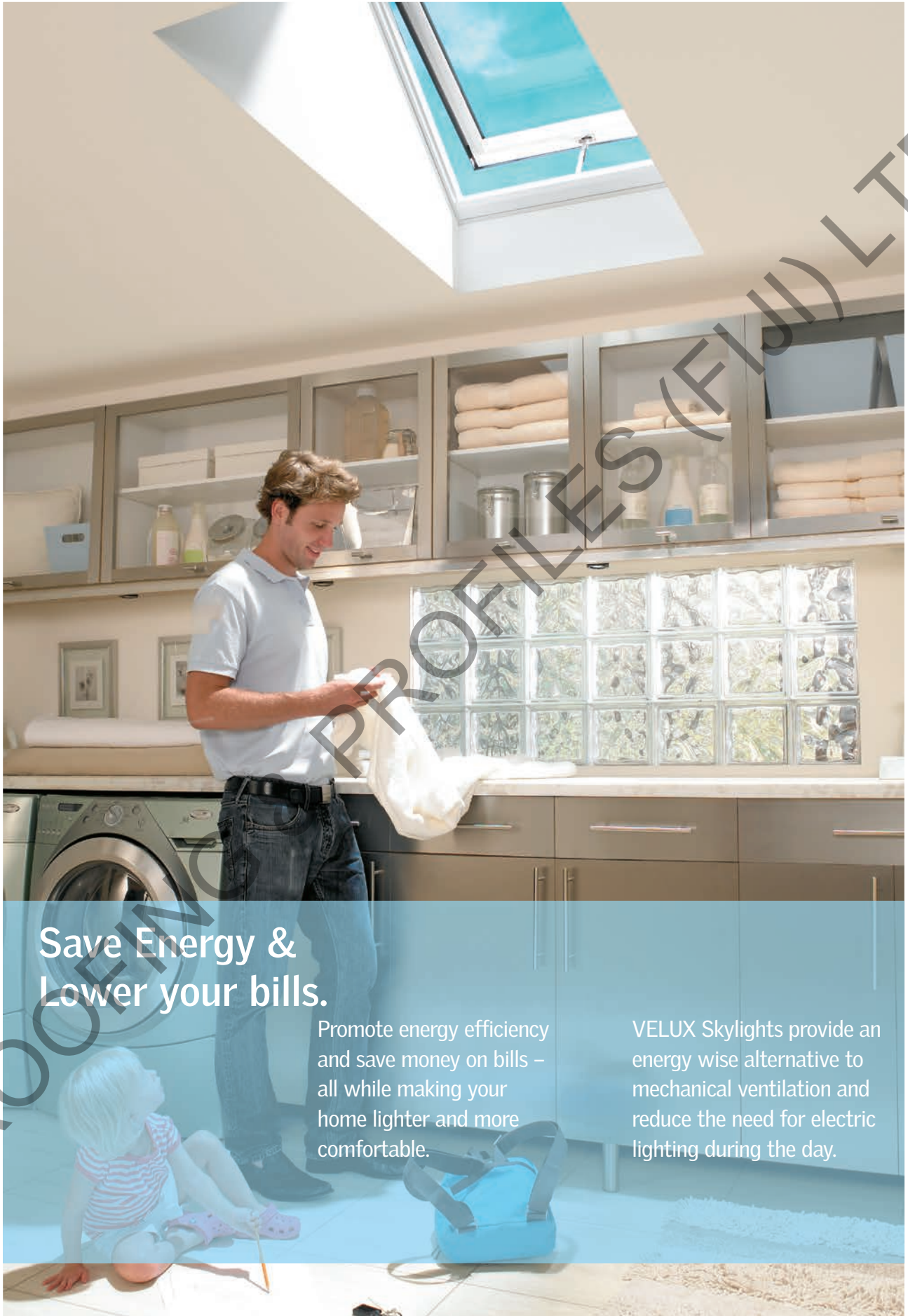
### ◀ Look up

Privacy in bedrooms and bathrooms is not just a convenience but a necessity.

VELUX Skylights will provide you with a beautiful view of the sky above, without giving anyone the opportunity to see in.



# Create an Energy Efficient home

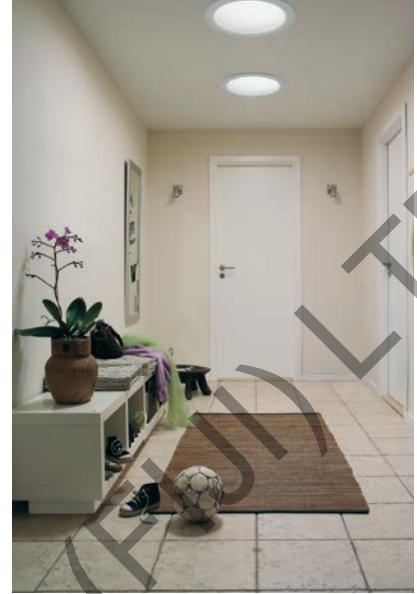


**Save Energy &  
Lower your bills.**

Promote energy efficiency and save money on bills – all while making your home lighter and more comfortable.

VELUX Skylights provide an energy wise alternative to mechanical ventilation and reduce the need for electric lighting during the day.





### Free Daylight ▲

Installing VELUX Skylights or Sun Tunnels is a wise alternative to electric lighting during the day. Daylight coming from a Sun Tunnel for example can light internal small rooms and hallways to make them feel more inviting. At the same time your energy consumption and electricity bill will be reduced too.



### Efficient Ventilation via the "stack effect" ▼

A VELUX Opening Skylight provides you with a natural and energy wise alternative to mechanical ventilation – via the stack effect.

The "**stack effect**" is the process of warm air moving upwards in a house. Warm air rises – because it's lighter than cold air. It escapes out of the upper levels of our homes and gets replaced with fresher air from windows and doors.

### Thermal Performance ▼

All VELUX Skylights have R-values well in excess of the New Zealand Standard requirements. The **R-value** is the accepted measure of insulation performance. The greater the value the better the insulation. However, when comparing skylights or windows, make sure you are looking at the R-value for the entire unit, frame and glass combined.

The VELUX group is also proud to offer skylights with the energy star label. The energy star label designates superior energy performance in homes and buildings. VELUX Skylights models FS, VS, VSE, FCM, VCM, VCE are all energy star certified.



\*In New Zealand there is currently no Energy Star rating for skylights. Energy star qualified products and practices help you save money and reduce greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S EPA and U.S. DOE.

# Create a Healthy Home



## Improve your home's indoor climate

Daylight isn't the only thing you can add to your home to make it nicer and more comfortable. In a world with increasing health problems and allergies, a constant supply of fresh, clean air is just as important.

Opening skylights use the natural movement of air to extract moisture and other allergens, making a home healthier, greener and more comfortable.



### Ventilate naturally ▲

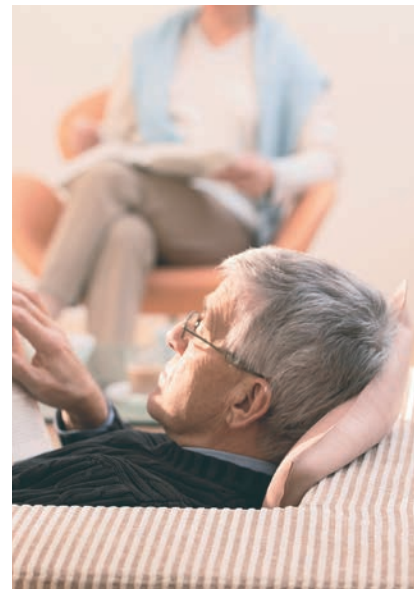
The air we breathe indoors is a cocktail containing moisture, microbes, chemicals and allergens, which affect human health and comfort. Many homes feel stuffy due to the lack of ventilation.

The primary purpose of ventilation is to remove undesired airborne substances from the building, especially moisture. It also serves to supply oxygen and remove carbon dioxide from human respiration. VELUX Opening Skylights will help you achieve the right comfort and air quality while creating a healthy home. Just open the Skylight and you will feel the instant freshness!



### Remove condensation ▲

The moisture production from a typical family corresponds to emptying a large bucket of water on the floor every day. Kitchens and bathrooms especially are areas where the build up of condensation is high due to the steam produced from showering and cooking. Opening Skylights act as natural extractors of hot air and minimize condensation and mould growth, naturally.



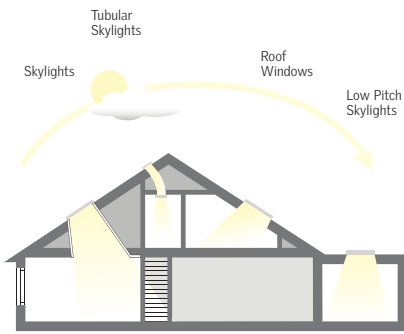
### Beat the winter blues ▲

Just as Daylight is good for you, the lack of it can have the opposite effect. Seasonal Affective Disorder is a clinically diagnosed condition in which the lack of sunlight in winter makes people feel ill or depressed. In similar conditions Skylights have shown to provide at least twice as much light as similar sized vertical windows (Danish Building Research Institute).

# Explore the possibilities – challenge your imagination

For us, the process of creative daydreaming isn't just wishful thinking. It can bring us to solutions that are affordable, practical and completely flexible. This is reflected in our range of skylights, which can be used in countless combinations to help you create a look that is as individual as you are.

Whether you're installing a single Skylight to showcase a particular area of a room, combining two or three, to enhance a space further, or planning a grand design of epic proportions - there is always a creative solution. The only limit is your imagination.



## Daylighting solutions for any situation

Homeowners often think that the only way to get more daylight into their homes is by adding extra windows or large bi-folding doors. Bi-folding doors are great but often an expensive solution. Vertical windows on the other hand will not necessarily bring more daylight into a building and will use that valuable wall space.

A clever alternative is to let daylight through the roof with VELUX double glazed skylights! In fact, research has shown that under similar conditions, VELUX skylights provide twice as

much daylight as vertical windows of the same size (Danish Building Research Institute). VELUX Skylights also provide a broader spread of light in rooms, enhance the visual interest of a place and, with excellent thermal performance, contribute to an energy efficient home.

The examples below show how daylight enters homes with different ceiling styles and roof pitches. To decide on a size, position and product application for your specific needs, discuss with your architect and/or builder.

For more inspiration  
[www.velux.co.nz](http://www.velux.co.nz)

## Flat ceiling and pitched roof

For most people this is often the unthinkable solution. They wonder how the daylight from a skylight, positioned on the roof, would enter through the roof space and down to the room. The answer is simple – via a light shaft. The shaft cuts through the roof space and lets daylight flow freely from one or more skylights into your room. Instantly your home will feel more spacious and light.







## Flat ceiling and pitched roof

When a view to the outside is not desired or the installation of a skylight is not possible due to the roof structure, the simple solution to get daylight into your home is to have a tubular skylight installed.

Tubular skylights are a great innovation - practical and easy to install solution for bringing daylight to even the smallest, darkest spaces. The daylight travels through a specially designed tube, which, depending on the daylight levels required, can be either flexible or rigid.



## Sloping ceiling and pitched roof

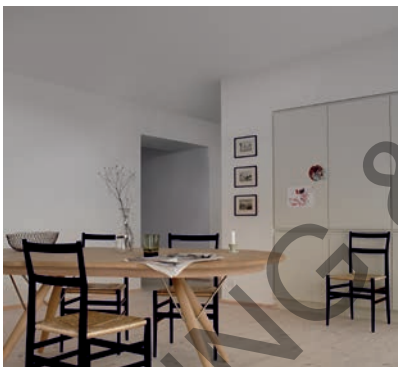
Buildings with sloping ceilings present the greatest opportunities for creating stunning, light-filled designs. The possible combinations are limitless. You simply choose the type and number of skylights and the position you desire. That's it!





## Sloping ceiling and high pitched roof

If you have unused space under the roof, which could be turned into a living area, Skylights are the perfect solution. It is important to use opening skylights for appropriate ventilation as roof spaces get very hot and stuffy.



## Flat ceiling and low pitched roof

If your roof is flat/ low pitched or you have an old acrylic dome you wish to replace, VELUX Low Pitch Skylights are the solution. They have a stylish low profile design and are all double glazed!




# VELUX range and quality



## Our products are designed to be beautiful, practical and energy efficient

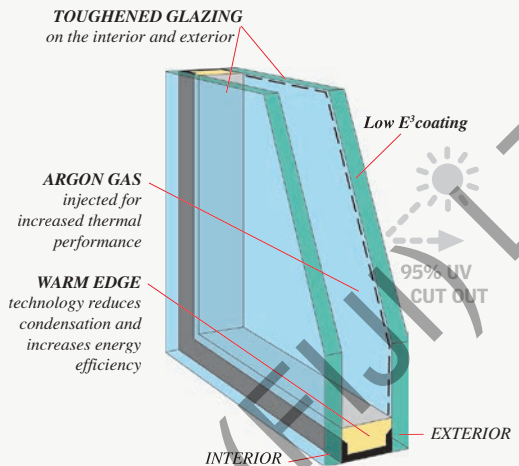
For 70 years we have been providing innovative solutions for bringing daylight and fresh air into buildings through the roof. As we develop our range, the quality of our Skylights remains of the utmost importance. We build it into every stage of the production process on every single one of our skylights. It's in the choice of raw materials, the construction methods we use and the strict quality controls we apply.

### Tested to the following standards\*:

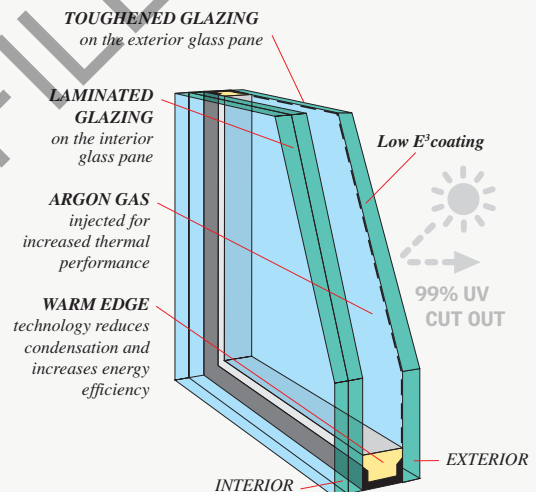
- 
- **Thermal resistance of complete unit:** EN ISO 12567-2, NFRC 102, NFRC 100
- **Solar Heat reduction in %:** EN 410, NFRC 200
- **UV light reduction:** EN 410, NFRC 300
- **Sound reduction of complete unit in dB:** EN ISO 717-1
- **Watertightness; Non-cyclonic & Cyclonic wind pressure:** AS4285 Australian Skylight Standards

\* For energy star information refer to p.13  
For detailed technical data to p.32-33

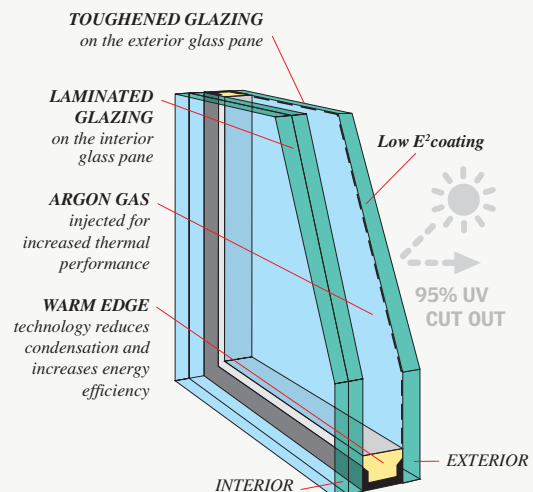
### Double glazing on Skylights FS/VS/FCM/VCM



### Double glazing on Skylights VSE /VCE



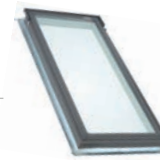
### Double glazing on Roof Windows GGU/GGL





**FS Fixed Skylight**

from \$470 incl GST



WHITE finish



95% UV Cut Out

An economical solution for visually expanding areas such as hallways, stairwells and other dark areas that can be transformed with a burst of light and life.



**Key Features**

- Interior surface - High quality treated timber, pre-finished frame and sash in WHITE, semi-gloss paint.
- Exterior surface - Lacquered aluminium, neutral grey colour (Grey Friars) with a Kynar® 500 top finish.
- Toughened double glazing with argon gas fill and Low E<sup>3</sup> coating for excellent thermal performance.

**+ Add a proprietary flashing**

Ensure a weathertight installation (p.30)

**+ Add a "Pick & Click" blind**

Control the amount of light (p.31)

Energy wise - R-value of 0.53 m<sup>2</sup>K/W









- Free Daylight instead of electric lighting
- Excellent thermal performance of R-value 0.53 m<sup>2</sup>K/W (complete unit)



Photos are for inspiration purposes only. Product details may vary slightly.

**FIXED SKYLIGHTS – MODEL FS (Installed Pitch 15°– 90°). Recommended Retail Prices incl. 15% GST**

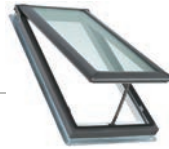
SIZE CODES:	FS C01	FS C04	FS M04	FS M08	FS S01	FS S06
						
<b>RRP incl. GST</b>	<b>RRP \$470</b>	<b>RRP \$530</b>	<b>RRP \$600</b>	<b>RRP \$710</b>	<b>RRP \$630</b>	<b>RRP \$750</b>
External frame dimensions mm (w x h)	550 x 700	550 x 980	780 x 980	780 x 1400	1140 X 700	1140 x 1180
R Value for Skylight incl. frame (m <sup>2</sup> K/W)	1 0.53	0.53	0.53	0.53	0.53	0.53
Solar Heat reduction in %	2 74%	74%	74%	74%	74%	74%
UV light reduction in %	3 95%	95%	95%	95%	95%	95%
Sound reduction in db	29 db	29 db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.28 m <sup>2</sup>	0.41 m <sup>2</sup>	0.62 m <sup>2</sup>	0.91 m <sup>2</sup>	0.64 m <sup>2</sup>	1.15 m <sup>2</sup>

Note 1, 2 & 3; refer to page 33 for standards of testing.



**vs** Opening Skylight

from \$920 incl GST



WHITE finish



Insect screen



95% UV Cut Out

A manually operated solution for bringing daylight and fresh air into the home with the added convenience of an internal insect screen, keeping mosquitoes and insects out.



**+ Choose your controls**

- Out of reach - order a telescopic rod ZCT 300. Standard length is 1.8m.
- In reach - order handle ZZZ 201.

**Key Features**

- Interior surface - High quality treated timber, pre-finished frame and sash in WHITE, semi-gloss paint.
- Exterior surface - Lacquered aluminium, neutral grey colour (Grey Friars) with a Kynar® 500 top finish.
- Pre-installed insect screen to keep mosquitoes and insects out.
- Toughened double glazing with argon gas fill and Low E<sup>3</sup> coating for excellent thermal performance.

**+ Add a proprietary flashing**

Ensure a weathertight installation (p.30)

**+ Add a "Pick & Click" blind**

Control the amount of light (p.31)

Energy wise - R-value of 0.53 m<sup>2</sup>K/W



- Free Daylight instead of electric lighting
- Summer Cooling using Natural Ventilation instead of air conditioning
- Excellent thermal performance of R-value 0.53 m<sup>2</sup>K/W (complete unit)



Photos are for inspiration purposes only. Product details may vary slightly.

MANUAL OPENING SKYLIGHTS - MODEL VS (Installed Pitch 15°-90°)

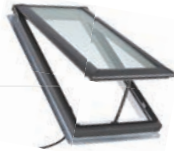
SIZE CODES:	VS C04	VS M04	VS M08	VS S01	VS S06
<b>RRP incl. GST</b>	<b>RRP \$920</b>	<b>RRP \$1000</b>	<b>RRP \$1110</b>	<b>RRP \$1030</b>	<b>RRP \$1150</b>
External frame dimensions mm (wxh)	550 x 980	780 x 980	780 x 1400	1140 x 700	1140 x 1180
R Value for Skylight incl. frame (m <sup>2</sup> K/W)	1 0.53	0.53	0.53	0.53	0.53
Solar Heat reduction in %	2 77%	77%	77%	77%	77%
UV light reduction in %	3 95%	95%	95%	95%	95%
Sound reduction in db	29 db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.33 m <sup>2</sup>	0.51 m <sup>2</sup>	0.78 m <sup>2</sup>	0.52 m <sup>2</sup>	1.00 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.33 m <sup>2</sup>	0.39 m <sup>2</sup>	0.49 m <sup>2</sup>	0.40 m <sup>2</sup>	0.54 m <sup>2</sup>



Note 1, 2 & 3; refer to page 33 for standards of testing.

**VSE INTEGRA® Opening Skylight**

from \$ 1820 incl GST



Enjoy daylight and fresh air at the touch of a button, just "Plug & Play". The added convenience of a pre-installed motor and the rain sensor make this product the ultimate skylight solution.



**+ INTEGRA® controls included**

All electrics are pre-installed for easy "Plug & Play" operation. Radio frequency control pad and rain sensor included. For connection to Home Automation Systems, call VELUX.

**Key Features**

- INTEGRA® controls with advanced personalised settings.
- Rain sensor which closes the skylight automatically with the first drop of rain.
- Interior surface - High quality treated timber, pre-finished frame and sash in WHITE, semi-gloss paint.
- Exterior surface - Lacquered aluminium, neutral grey colour (Grey Friars) with a Kynar® 500 top finish.
- Pre-installed insect screen to keep mosquitoes and insects out.
- Laminated double glazing with argon gas fill and Low E<sup>3</sup> coating for excellent thermal performance.

**+ Add a proprietary flashing**

Ensure a weathertight installation (p.30)

**+ Add a "Pick & Click" blind**

Control the amount of light (p.31)

Energy wise - R-value of 0.50 m<sup>2</sup>K/W








- Free Daylight instead of electric lighting
- Summer Cooling using Natural Ventilation instead of air conditioning
- Excellent thermal performance of R-value 0.50 m<sup>2</sup>K/W (complete unit)



Photos are for inspiration purposes only. Product details may vary slightly.


**ELECTRIC OPENING SKYLIGHTS – MODEL VSE (Installed Pitch 15°– 90°)**

SIZE CODES:	VSE C04	VSE M04	VSE M08	VSE S01	VSE S06
					
<b>RRP incl. GST</b>	<b>RRP \$1820</b>	<b>RRP \$1920</b>	<b>RRP \$2030</b>	<b>RRP \$1950</b>	<b>RRP \$2070</b>
External frame dimensions mm (wxh)	550 x 980	780 x 980	780 x 1400	1140 X 700	1140 x 1180
R Value for Skylight incl. frame (m <sup>2</sup> K/W)	1 0.50	0.50	0.50	0.50	0.50
Solar Heat reduction in %	2 77%	77%	77%	77%	77%
UV light reduction in %	3 99%	99%	99%	99%	99%
Sound reduction in db	29 db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.33 m <sup>2</sup>	0.51 m <sup>2</sup>	0.78 m <sup>2</sup>	0.52 m <sup>2</sup>	1.00 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.33 m <sup>2</sup>	0.39 m <sup>2</sup>	0.49 m <sup>2</sup>	0.40 m <sup>2</sup>	0.54 m <sup>2</sup>



Note 1, 2 & 3; refer to page 33 for standards of testing.

# NEW Generation Roof Windows

 15°-90° minimum installed pitch 15°

For prices, please refer to our Pricelist.

## GGU Roof Window - white EVERFINISH

from \$720 incl GST



EVERFINISH



Controllable Vent Flap



Rotates for easy cleaning



95% UV Cut Out

High quality moulded polyurethane encapsulates the timber core and makes this product virtually maintenance-free. The Stylish white finish and smooth rounded corners contribute to an elegant and contemporary look.



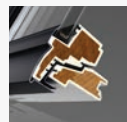
### + Choose your controls

- In reach - use the top handle bar.
- Out of reach - order a telescopic rod ZCT 200. Standard length is 1.8m.
- INTEGRA® controls available - contact VELUX for the correct components for your situation.



### Key Features

- Interior surface - A white, seamless, 3mm thick polyurethane, encapsulates and protects the strong timber core.
- Exterior surface - Lacquered aluminium, neutral grey colour (Grey Friars).
- Vent Flap for controllable passive ventilation even when its raining. The built in filter also keeps out dust and insects.
- Can be rotated 180° and locked in place for easy cleaning.
- Laminated double glazing with argon gas fill and Low E<sup>2</sup> coating for excellent thermal performance.



### + Add a proprietary flashing

Ensure a weathertight installation (p.30)

### + Add a "Pick & Click" blind

Control the amount of light (p.31)

Get more daylight  
Get more comfort  
Use less energy

Energy wise - R-value of 0.83 m<sup>2</sup>K/W

- 4-7% larger daylight area
- 52% more solar heat reduction
- 16% more energy efficient



Photos are for inspiration purposes only. Product details may vary slightly.


### ROOF WINDOW - TIMBER FINISH, MODEL GGU (Installed Pitch 15° - 90°)

SIZE CODES:	GGU CK02	GGU CK04	GGU MK04	GGU MK06	GGU MK08	GGU SK06	GGU SK08
RRP incl. GST	RRP \$720	RRP \$780	RRP \$870	RRP \$960	RRP \$1010	RRP \$1220	RRP \$1390
External frame dimensions mm (wxh)	550 x 780	550 x 980	780 x 980	780 x 1180	780 x 1400	1140 x 1180	1140 x 1400
R Value for Skylight incl. frame (m <sup>2</sup> K/W) <sup>1</sup>	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Solar Heat reduction in % <sup>2</sup>	70%	70%	70%	70%	70%	70%	70%
UV light reduction in % <sup>3</sup>	95%	95%	95%	95%	95%	95%	95%
Sound reduction in db <sup>4</sup>	35 db	35 db	35 db	35 db	35 db	35 db	35 db
Daylight area in m <sup>2</sup>	0.21 m <sup>2</sup>	0.29 m <sup>2</sup>	0.47 m <sup>2</sup>	0.59 m <sup>2</sup>	0.72 m <sup>2</sup>	0.94 m <sup>2</sup>	1.15 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.32 m <sup>2</sup>	0.38 m <sup>2</sup>	0.57 m <sup>2</sup>	0.72 m <sup>2</sup>	0.86 m <sup>2</sup>	1.08 m <sup>2</sup>	1.36 m <sup>2</sup>
Ventilation through vent-flap in m <sup>2</sup>	0.004 m <sup>2</sup>	0.004 m <sup>2</sup>	0.007 m <sup>2</sup>	0.007 m <sup>2</sup>	0.007 m <sup>2</sup>	0.010 m <sup>2</sup>	0.010 m <sup>2</sup>

Note 1, 2, 3 & 4; refer to page 33 for standards of testing.



# NEW Generation Roof Windows

 15°-90° minimum installed pitch 15°

For prices, please refer to our Pricelist.

**GGL** Roof Window - timber finish  
from \$780 incl GST



Timber Finish



Controllable Vent Flap



Rotates for easy cleaning



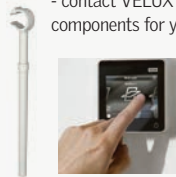
95% UV Cut Out

Transform spaces into beautiful living areas filled with daylight and fresh air. Enjoy the warmth of natural timber and the added convenience of a vent flap, allowing for controllable ventilation even when it is raining.



### + Choose your controls

- In reach - use the top handle bar.
- Out of reach - order a telescopic rod ZCT 200. Standard length is 1.8m.
- INTEGRA® controls available - contact VELUX for the correct components for your situation.



### Key Features

- Interior surface - High quality treated timber, pre-finished with a clear, water-based lacquer to keep the natural TIMBER look.
- Exterior surface - Lacquered aluminium, neutral grey colour (Grey Friars).
- Vent Flap for controllable passive ventilation even when its raining. The built in filter also keeps out dust and insects.
- Can be rotated 180° and locked in place for easy cleaning.
- Laminated double glazing with argon gas fill and Low E<sup>2</sup> coating for excellent thermal performance.

### + Add a proprietary flashing

Ensure a weathertight installation (p.30)

### + Add a "Pick & Click" blind

Control the amount of light (p.31)

Get more daylight  
Get more comfort  
Use less energy






Energy wise - R-value of 0.83 m<sup>2</sup>K/W

- 4-7% larger daylight area
- 52% more solar heat reduction
- 16% more energy efficient



Photos are for inspiration purposes only. Product details may vary slightly.

### ROOF WINDOW - WHITE EVERFINISH, MODEL GGL (Installed Pitch 15° - 90°)

SIZE CODES:	GGL CK04	GGL MK04	GGL MK06	GGL MK08	GGL SK06
					
RRP incl. GST	RRP \$780	RRP \$870	RRP \$960	RRP \$1010	RRP \$1220
External frame dimensions mm (wxh)	550 x 980	780 x 980	780 x 1180	780 x 1400	1140 x 1180
R Value for Skylight incl. frame (m <sup>2</sup> K/W) <sup>1</sup>	0.83	0.83	0.83	0.83	0.83
Solar Heat reduction in % <sup>2</sup>	70%	70%	70%	70%	70%
UV light reduction in % <sup>3</sup>	95%	95%	95%	95%	95%
Sound reduction in db <sup>4</sup>	35 db	35 db	35 db	35 db	35 db
Daylight area in m <sup>2</sup>	0.29 m <sup>2</sup>	0.47 m <sup>2</sup>	0.59 m <sup>2</sup>	0.72 m <sup>2</sup>	0.94 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.38 m <sup>2</sup>	0.57 m <sup>2</sup>	0.72 m <sup>2</sup>	0.86m <sup>2</sup>	1.08m <sup>2</sup>
Ventilation through vent-flap in m <sup>2</sup>	0.004 m <sup>2</sup>	0.007 m <sup>2</sup>	0.007 m <sup>2</sup>	0.007 m <sup>2</sup>	0.010 m <sup>2</sup>

# Low Pitch Skylights



0°-60° minimum installed pitch 0°

For prices, please refer to our Pricelist.



## Low Pitch Fixed Skylight

from \$450 incl GST



95% UV Cut Out

Bring daylight into your home with this specifically designed for flat roofs or low pitch roofs solution.



### Key Features

- Exterior surface - Lacquered aluminium, neutral grey colour (Grey Friars) with a Kynar® 500 top finish.
- Can be installed in any direction, except model FCM 2270\*.
- Toughened double glazing with argon gas fill and Low E<sup>3</sup> coating for excellent thermal performance.

### + Add a "Pick & Click" blind

Control the amount of light (p.31)

Energy wise - R-value of 0.45 m<sup>2</sup>K/W



- Free Daylight instead of electric lighting
- Excellent thermal performance of R-value 0.45 m<sup>2</sup>K/W (complete unit)



Photos are for inspiration purposes only. Product details may vary slightly.

### LOW PITCH FIXED SKYLIGHTS – MODEL FCM (Installed Pitch 0° – 60°)

SIZE CODES:	FCM 2222	FCM 2246	FCM 2246	FCM 2270*	FCM 3030	FCM 3434	FCM 4646
RRP incl. GST	RRP \$450	RRP \$560	RRP \$560	RRP \$840	RRP \$540	RRP \$560	RRP \$760
Actual Skylight dimensions mm	692 x 692	692 x 1302	1302 x 692	692 x 1911	895 x 895	997 x 997	1302 x 1302
Outside Curb dimensions mm	648 x 648	648 x 1257	1257 x 648	648 x 1867	851 x 851	952 x 952	1257 x 1257
Finished Inside Curb dimensions mm	572 x 572	572 x 1181	1181 x 572	572 x 1791	775 x 775	876 x 876	1181 x 1181
R Value for Skylight incl. frame (m <sup>2</sup> K/W)	1 0.45	0.45	0.45	0.45	0.45	0.45	0.45
Solar Heat reduction in %	2 74%	74%	74%	74%	74%	74%	74%
UV light reduction in %	3 95%	95%	95%	95%	95%	95%	95%
Sound reduction in db	29 db	29 db	29 db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.33 m <sup>2</sup>	0.67 m <sup>2</sup>	0.67 m <sup>2</sup>	1.02 m <sup>2</sup>	0.60 m <sup>2</sup>	0.77 m <sup>2</sup>	1.39 m <sup>2</sup>



Note 1, 2 & 3; refer to page 33 for standards of testing. \*FCM 2270 cannot be used across the roof (long side must always run top to bottom, portrait view)

# Low Pitch Skylights



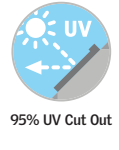
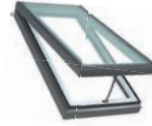
0°-60° minimum installed pitch 0°

For prices, please refer to our Pricelist.



## Low Pitch Opening Skylight

from \$1130 incl GST



Manually operated flat roof or low pitch roof solution for bringing daylight and fresh air into the home with the added convenience of an internal insect screen, keeping mosquitoes and insects out.



### + Choose your controls

- Out of reach – order a telescopic rod ZCT 300. Standard length is 1.8m.
- In reach – order handle ZZZ 212.

### Key Features

- Interior surface - Maintenance-free, WHITE PVC interior.
- Exterior surface - Lacquered aluminium, neutral grey colour (Grey Friars) with a Kynar® 500 top finish.
- Pre-installed insect screen to keep mosquitoes and insects out.
- Toughened double glazing with argon gas fill and Low E<sup>3</sup> coating for excellent thermal performance.

### + Add a "Pick & Click" blind

Control the amount of light (p.31)

Energy wise - R-value of 0.42 m<sup>2</sup>K/W



- Free Daylight instead of electric lighting
- Summer Cooling using Natural Ventilation instead of air conditioning
- Excellent thermal performance of R-value 0.42 m<sup>2</sup>K/W (complete unit)



Photos are for inspiration purposes only. Product details may vary slightly.

### LOW PITCH OPENING SKYLIGHTS – MANUAL, MODEL VCM (Installed Pitch 0° – 60°)

SIZE CODES:	VCM 2222	VCM 2246	VCM 3030	VCM 4646
RRP incl. GST	RRP \$1130	RRP \$1260	RRP \$1240	RRP \$1490
Actual Skylight dimensions mm	692 x 692	692 x 1302	895 x 895	1302 x 1302
Outside Curb dimensions mm	648 x 648	648 x 1257	851 x 851	1257 x 1257
Finished Inside Curb dimensions mm	572 x 572	572 x 1181	775 x 775	1181 x 1181
R Value for Skylight incl. frame (m <sup>2</sup> K/W)	0.42	0.42	0.42	0.42
Solar Heat reduction in %	76%	76%	76%	76%
UV light reduction in %	95%	95%	95%	95%
Sound reduction in db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.24 m <sup>2</sup>	0.55 m <sup>2</sup>	0.49 m <sup>2</sup>	1.22 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.30 m <sup>2</sup>	0.48 m <sup>2</sup>	0.42 m <sup>2</sup>	0.66 m <sup>2</sup>





# Low Pitch Skylights

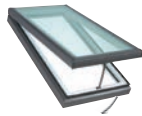


0°-60° minimum installed pitch 0°

For prices, please refer to our Pricelist.

## VCE INTEGRA® Low Pitch Opening Skylight

from \$1930 incl GST



INTEGRA® controls



Rain sensor



WHITE PVC interior



Insect screen



99% UV Cut Out

Enjoy daylight and fresh air at the touch of a button, just "Plug & Play". The added convenience of a pre-installed motor and the rain sensor make this product the ultimate flat roof or low pitch roof skylight solution.



### + INTEGRA® controls included

All electrics are pre-installed for easy "Plug & Play" operation. Radio frequency control pad and rain sensor included. For connection to Home Automation Systems, call VELUX.

### Key Features

- INTEGRA® controls with advanced personalised settings.
- Rain sensor which closes the skylight automatically with the first drop of rain.
- Interior surface - Maintenance-free, WHITE PVC interior.
- Exterior surface - Lacquered aluminium, neutral grey colour (Grey Friars) with a Kynar® 500 top finish.
- Pre-installed insect screen to keep mosquitoes and insects out.
- Laminated double glazing with argon gas fill and Low E<sup>3</sup> coating for excellent thermal performance.

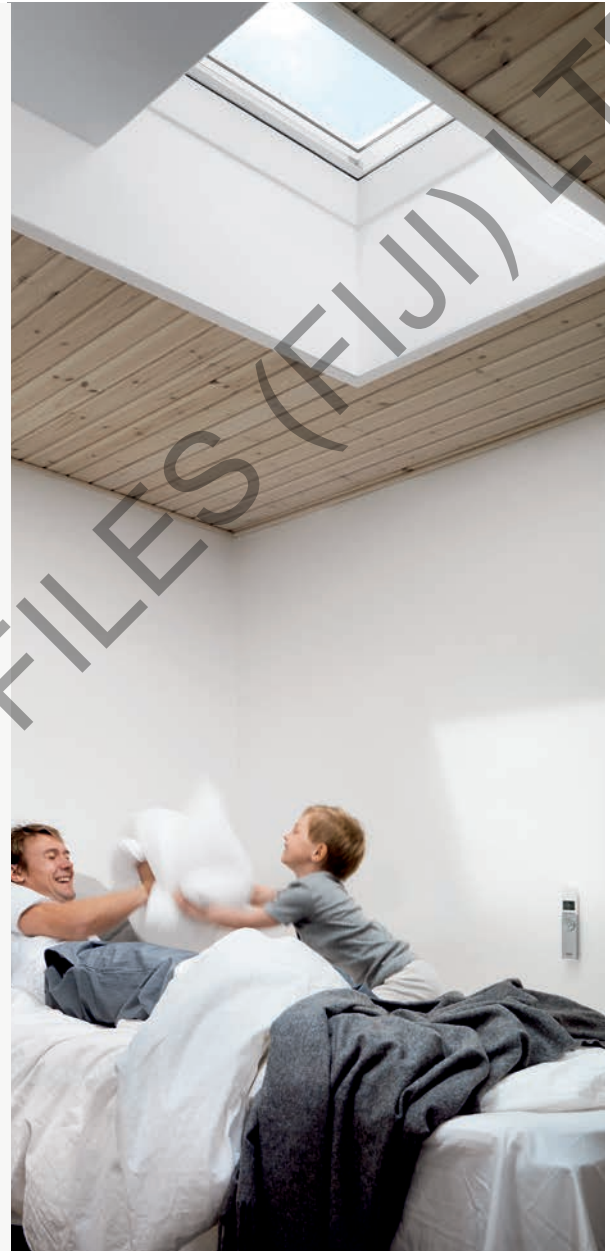
### + Add a "Pick & Click" blind

Control the amount of light (p.31)

Energy wise - R-value of 0.40 m<sup>2</sup>K/W



- Free Daylight instead of electric lighting
- Summer Cooling using Natural Ventilation instead of air conditioning
- Excellent thermal performance of R-value 0.40 m<sup>2</sup>K/W (complete unit)



Photos are for inspiration purposes only. Product details may vary slightly.

### LOW PITCH OPENING SKYLIGHTS - ELECTRIC, MODEL VCE (Installed Pitch 0° - 60°)

	SIZE CODES:	VCE 2222	VCE 2246	VCE 3030	VCE 4646
	RRP incl. GST	RRP \$1930	RRP \$2060	RRP \$2040	RRP \$2290
Actual Skylight dimensions mm		692 x 692	692 x 1302	895 x 895	1302 x 1302
Outside Curb dimensions mm		648 x 648	648 x 1257	851 x 851	1257 x 1257
Finished Inside Curb dimensions mm		572 x 572	572 x 1181	775 x 775	1181 x 1181
R Value for Skylight incl. frame (m <sup>2</sup> K/W)	1	0.40	0.40	0.40	0.40
Solar Heat reduction in %	2	76%	76%	76%	76%
UV light reduction in %	3	99%	99%	99%	99%
Sound reduction in db		29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>		0.24 m <sup>2</sup>	0.55 m <sup>2</sup>	0.49 m <sup>2</sup>	1.22 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>		0.30 m <sup>2</sup>	0.48 m <sup>2</sup>	0.42 m <sup>2</sup>	0.66 m <sup>2</sup>



Note 1, 2 & 3; refer to page 33 for standards of testing.

## VELUX Sun Tunnel - The stylish tubular skylight

Nothing compares to a VELUX Sun Tunnel – its stylish, flat and toughened-glass exterior directs pure, natural daylight through a highly reflective tube into the darkest parts of your home.



Low profile design



Discreet diffuser

### Key Features

- Unique Daylight Calculator available online
- Stylish low profile design blends beautifully with the roofline
- Toughened "easy to clean" glass exterior
- Discreet double glazed diffuser



### Daylight Calculator tool ▶

To choose the right Sun Tunnel solution for your specific situation, use our unique and free Daylight Calculator tool, available online.

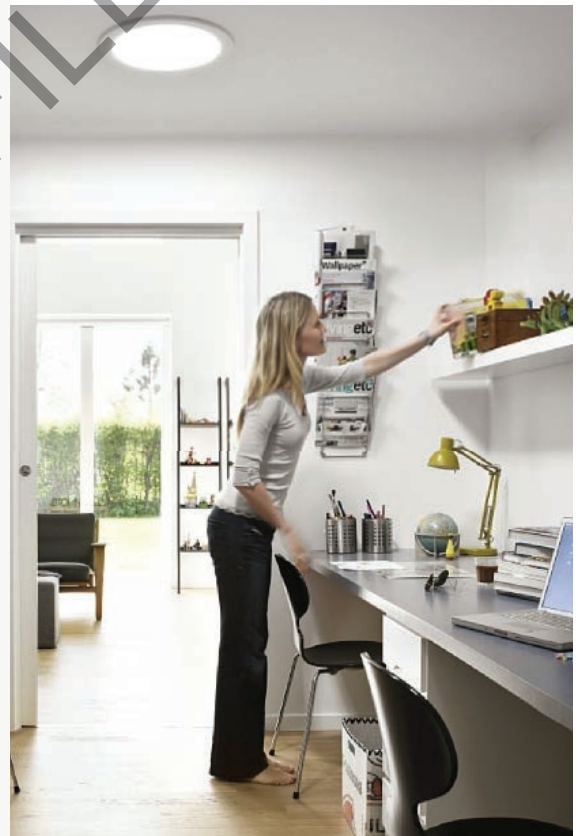
- ✓ it considers your location and roof orientation
- ✓ it determines the exact light output for your specific situation
- ✓ it recommends a solution based on your room dimensions, room type and use

### Calculate now at:








Energy wise - R-value of 0.45 m<sup>2</sup>K/W

- Free Daylight instead of electric lighting
- Excellent thermal performance of R-value 0.45 m<sup>2</sup>K/W (complete unit)



Photos are for inspiration purposes only. Product details may vary slightly.

### SUN TUNNEL – MODELS TWR, TLR, TWF, TLF (Installed pitch 15°- 60°)

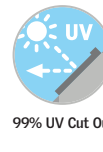
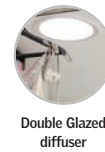
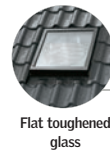
	SIZE CODES:	TWF 014	TLF 014	TWR 010	TWR 014	TLR 014
						
	RRP incl. GST	RRP \$490	RRP \$590	RRP \$590	RRP \$690	RRP \$790
Internal diameter dimensions in mm		350	350	250	350	350
R value for Complete unit (m <sup>2</sup> K/W)	1	0.45	0.45	0.45	0.45	0.45
UV light reduction in %	3	99%	99%	99%	99%	99%





## Flexible Sun Tunnels

from \$490 incl GST



### TWF Flexible Sun Tunnel

Includes a double glazed diffuser, flexible tube and a stylish roof module with integral flashing, for profiled metal or tile roofing up to 120mm profile height.

### TLF Flexible Sun Tunnel

Includes a double glazed diffuser, flexible tube and a stylish roof module with integral flashing for flat profile roofing such as shingle or slate.

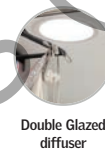
### Key Features

- 350mm diameter with a discreet double glazed diffuser.
- Minimum distance from ceiling to roof 0.4m.
- Standard length 1.5m not extendable.
- Use the online Daylight Calculator to select the correct Sun Tunnel for your unique situation.



## Rigid Sun Tunnels

from \$590 incl GST



### TWR Rigid Sun Tunnel

Includes a double glazed diffuser, rigid tube and a stylish roof module with integral flashing, for profiled metal or tile roofing up to 120mm profile height.

### TLR Rigid Sun Tunnel

Includes a double glazed diffuser, rigid tube and a stylish roof module with integral flashing for flat profile roofing such as shingle or slate.

### Key Features

- 250mm diameter (TWR model only) and 350mm diameter options available. Both come with a discreet double glazed diffuser
- Minimum distance from ceiling to roof 0.9m.
- Standard length 1.85m extendable to 6m using ZTR extensions.
- Use the online Daylight Calculator to select the correct Sun Tunnel for your unique situation.

## Accessories for Sun Tunnels

### + ZTL Electric Light kit



Allows the VELUX Sun Tunnel to provide electric lighting at night. Supplied with power cord and a 4W LED bulb.

### + ZTV Ventilation Adaptor



VELUX adaptor (for TWR014 & TWF 014 models only) for connection to an in-line mechanical ventilation device. Additional roof penetration is not required. Purchase your own in-line mechanical ventilation device from your local dealer.

### + ZTB "Daylight lamp" by designer R. Lovegrove



This award winning design transforms a functional product into a designer "daylight lamp". Crafted from recyclable high gloss ABS and complete with a controllable daylight output. Compatible with VELUX Sun Tunnels (size 014 only) with code 2010E1 and above.

### + ZTK Blackout Blind



For room darkening. Colour - white. Complete with a control rod, length 0.67m.



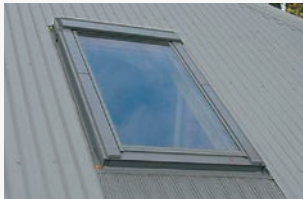
# + Flashings for Skylights/Roof Windows

## There is no such thing as nearly watertight

Every Skylight requires a flashing system to stop the rain from coming in. VELUX flashing systems are specifically designed to ensure a watertight installation and are the perfect match for our skylights.

### Why choose a VELUX flashing?

- ✓ It is an original VELUX product, guaranteeing quality and durability.
- ✓ Its performance is tested under strict conditions (Wind tunnel tested).
- ✓ Allows the Skylight to sit lower in the roof and is an E2 compliant solution, accepted by building consent authorities.



\*Note: ZWC capping kit must be ordered for GGU/GGL roof windows when not using VELUX EDW, EDL or EKW flashings below (see retail price list for codes)



### EDW Flashing – for metal or tile roofing. e.g. corrugate, tile

#### Available for models FS, VS, VSE, GGU\*, GGL\*

- Flashings for installing one Skylight for metal or tile roofing up to 120mm profile height. e.g. corrugate, tile.
- Designed for roof pitches from 15° to 90°. For roofs below 15° create pitch-up and use custom made flashing.
- Flashing Colour – "Grey Friars" to match Skylights cappings.



### EDL Flashing – for flat profile roofing material. e.g. shingle, slate

#### Available for models FS, VS, VSE, GGU\*, GGL\*

- Flashings for installing one Skylight in flat profile roofing material up to 8mm thick (5mm thick when used with FS Skylight).
- Designed for roof pitches from 15° to 90°. For roofs below 15° create pitch-up and use custom made flashing.
- Flashing Colour – "Grey Friars" to match Skylights cappings.




### EKW Combi Flashing – for metal or tile roofing. e.g. corrugate, tile

#### Available for models FS, VS, VSE, GGU\*, GGL\*

- The modular system allows for easy installation of an unlimited number of Skylights closely together, to dramatically transform interior spaces or simply to achieve larger sizes.
- Can be used to combine units vertically or horizontally
- Designed for roof pitches from 15° to 90°.
- Flashing Colour – "Grey Friars" to match Skylights cappings


# +Blinds for Skylights/Roof Windows/Low Pitch Skylights




pre-fitted brackets

**Pick&Click!**<sup>®</sup>

Our FS, VS, VSE, GGU, GGL, VCM, VCE Skylights come with pre-fitted mounting brackets which make the installation of VELUX blinds a snap.





### Blackout Blinds – for complete room darkening


**Blind Colour – White. Available for models FS, VS, VSE, GGU, GGL, FCM\*, VCM, VCE**

Blackout Blinds help to turn day into night and have a reflective backing which reduces heat gain and loss.

**Energy wise - increases R-values by 28%**

- Using VELUX Blackout Blinds, increases R-values by 28% (tests conducted on GGL Roof Windows with DKL Blackout Blind).

\* Accessory Tray ZZZ 199 required to fit blinds onto FCM Low Pitch Skylight. See pricelist for details.



### Venetian Blinds – for complete control of light intensity and direction

**Blind Colour – White. Available for models FS, GGU, GGL**

Venetian Blinds give you complete control of light direction and intensity.

**Energy wise - increases R-values by 8%**

- Using VELUX Venetian Blinds, increases R-values by 8% (tests conducted on GGL Roof Windows with PAL Venetian Blind).

**Important:** For prices and models available, please refer to our Pricelist. When ordering blinds for VELUX Skylights always check the size code of your Skylight (located on frame/sash of Skylight). This will ensure that we supply the correct blind to fit previous models. Do not measure the size of your skylight as past models vary.

# Technical Data

## FS – FIXED SKYLIGHTS – (Installed Pitch 15°– 90°)

SIZE CODES	FS C01	FS C04	FS M04	FS M08	FS S01	FS S06
External frame dimensions mm (wxh)	550 x 700	550 x 980	780 x 980	780 x 1400	1140 x 700	1140 x 1180
R Value for Skylight incl. frame (m <sup>2</sup> K/W) 1	0.53	0.53	0.53	0.53	0.53	0.53
Solar Heat reduction in % 2	74%	74%	74%	74%	74%	74%
UV light reduction in % 3	95%	95%	95%	95%	95%	95%
Sound reduction in db	29 db	29 db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.28 m <sup>2</sup>	0.41 m <sup>2</sup>	0.62 m <sup>2</sup>	0.91 m <sup>2</sup>	0.64 m <sup>2</sup>	1.15 m <sup>2</sup>

## VS – OPENING SKYLIGHTS – (Installed Pitch 15°–90°)

SIZE CODES	VS C04	VS M04	VS M08	VS S01	VS S06
External frame dimensions mm (wxh)	550 x 980	780 x 980	780 x 1400	1140 x 700	1140 x 1180
R Value for Skylight incl. frame (m <sup>2</sup> K/W) 1	0.53	0.53	0.53	0.53	0.53
Solar Heat reduction in % 2	77%	77%	77%	77%	77%
UV light reduction in % 3	95%	95%	95%	95%	95%
Sound reduction in db	29 db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.33 m <sup>2</sup>	0.51 m <sup>2</sup>	0.78 m <sup>2</sup>	0.52 m <sup>2</sup>	1.00 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.33 m <sup>2</sup>	0.39 m <sup>2</sup>	0.49 m <sup>2</sup>	0.40 m <sup>2</sup>	0.54 m <sup>2</sup>

## VSE – INTEGRA® OPENING SKYLIGHTS – (Installed Pitch 15°– 90°) 2.4 GHz frequency

SIZE CODES	VSE C04	VSE M04	VSE M08	VSE S01	VSE S06
External frame dimensions mm (wxh)	550 x 980	780 x 980	780 x 1400	1140 x 700	1140 x 1180
R Value for Skylight incl. frame (m <sup>2</sup> K/W) 1	0.50	0.50	0.50	0.50	0.50
Solar Heat reduction in % 2	77%	77%	77%	77%	77%
UV light reduction in % 3	99%	99%	99%	99%	99%
Sound reduction in db	29 db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.33 m <sup>2</sup>	0.51 m <sup>2</sup>	0.78 m <sup>2</sup>	0.52 m <sup>2</sup>	1.00 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.33 m <sup>2</sup>	0.39 m <sup>2</sup>	0.49 m <sup>2</sup>	0.40 m <sup>2</sup>	0.54 m <sup>2</sup>

## GGU – ROOF WINDOW, EVERFINISH – (Installed Pitch 15°– 90°)

SIZE CODES	GGU CK02	GGU CK04	GGU MK04	GGU MK06	GGU MK08	GGU SK06	GGU SK08
External frame dimensions mm (wxh)	550 x 780	550 x 980	780 x 980	780 x 1180	780 x 1400	1140 x 1180	1140 x 1400
R Value for Skylight incl. frame (m <sup>2</sup> K/W) 1	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Solar Heat reduction in % 2	70%	70%	70%	70%	70%	70%	70%
UV light reduction in % 3	95%	95%	95%	95%	95%	95%	95%
Sound reduction in db 4	35 db	35 db	35 db	35 db	35 db	35 db	35 db
Daylight area in m <sup>2</sup>	0.21 m <sup>2</sup>	0.29 m <sup>2</sup>	0.47 m <sup>2</sup>	0.59 m <sup>2</sup>	0.72 m <sup>2</sup>	0.94 m <sup>2</sup>	1.15 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.32 m <sup>2</sup>	0.38 m <sup>2</sup>	0.57 m <sup>2</sup>	0.72 m <sup>2</sup>	0.86 m <sup>2</sup>	1.08 m <sup>2</sup>	1.36 m <sup>2</sup>
Ventilation through vent-flap in m <sup>2</sup>	0.004 m <sup>2</sup>	0.004 m <sup>2</sup>	0.007 m <sup>2</sup>	0.007 m <sup>2</sup>	0.007 m <sup>2</sup>	0.010 m <sup>2</sup>	0.010 m <sup>2</sup>

## GGL – ROOF WINDOW, TIMBER FINISH – (Installed Pitch 15°– 90°)

SIZE CODES	GGL CK04	GGL MK04	GGL MK06	GGL MK08	GGL SK06
External frame dimensions mm (wxh)	550 x 980	780 x 980	780 x 1180	780 x 1400	1140 x 1180
R Value for Skylight incl. frame (m <sup>2</sup> K/W) 1	0.83	0.83	0.83	0.83	0.83
Solar Heat reduction in % 2	70%	70%	70%	70%	70%
UV light reduction in % 3	95%	95%	95%	95%	95%
Sound reduction in db 4	35 db	35 db	35 db	35 db	35 db
Daylight area in m <sup>2</sup>	0.29 m <sup>2</sup>	0.47 m <sup>2</sup>	0.59 m <sup>2</sup>	0.72 m <sup>2</sup>	0.94 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.38 m <sup>2</sup>	0.57 m <sup>2</sup>	0.72 m <sup>2</sup>	0.86 m <sup>2</sup>	1.08 m <sup>2</sup>
Ventilation through vent-flap in m <sup>2</sup>	0.004 m <sup>2</sup>	0.007 m <sup>2</sup>	0.007 m <sup>2</sup>	0.007 m <sup>2</sup>	0.010 m <sup>2</sup>



# Technical Data

## FCM – LOW PITCH FIXED SKYLIGHTS – (Installed Pitch 0°– 60°)

SIZE CODES	FCM 2222	FCM 2246	FCM 2270	FCM 3030	FCM 3434	FCM 4646
Actual Skylight dimensions mm	692 x 692	692 x 1302	692 x 1911	895 x 895	997 x 997	1302 x 1302
Outside Curb dimensions mm	648 x 648	648 x 1257	648 x 1867	851 x 851	952 x 952	1257 x 1257
Finished Inside Curb dimensions mm	572 x 572	572 x 1181	572 x 1791	775 x 775	876 x 876	1181 x 1181
R Value for Skylight incl. frame (m <sup>2</sup> K/W) 1	0.45	0.45	0.45	0.45	0.45	0.45
Solar Heat reduction in % 2	74%	74%	74%	74%	74%	74%
UV light reduction in % 3	95%	95%	95%	95%	95%	95%
Sound reduction in db	29 db	29 db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.33 m <sup>2</sup>	0.67 m <sup>2</sup>	1.02 m <sup>2</sup>	0.60 m <sup>2</sup>	0.77 m <sup>2</sup>	1.39 m <sup>2</sup>

## VCM – LOW PITCH OPENING SKYLIGHTS – (Installed Pitch 0°– 60°)

SIZE CODES	VCM 2222	VCM 2246	VCM 3030	VCM 4646
Actual Skylight dimensions mm	692 x 692	692 x 1302	895 x 895	1302 x 1302
Outside Curb dimensions mm	648 x 648	648 x 1257	851 x 851	1257 x 1257
Finished Inside Curb dimensions mm	572 x 572	572 x 1181	775 x 775	1181 x 1181
R Value for Skylight incl. frame (m <sup>2</sup> K/W) 1	0.42	0.42	0.42	0.42
Solar Heat reduction in % 2	76%	76%	76%	76%
UV light reduction in % 3	95%	95%	95%	95%
Sound reduction in db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.24 m <sup>2</sup>	0.55 m <sup>2</sup>	0.49 m <sup>2</sup>	1.22 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.30 m <sup>2</sup>	0.48 m <sup>2</sup>	0.42 m <sup>2</sup>	0.66 m <sup>2</sup>

## VCE – INTEGRA® LOW PITCH OPENING SKYLIGHTS – (Installed Pitch 0°– 60°) 2.4 GHz frequency

SIZE CODES	VCE 2222	VCE 2246	VCE 3030	VCE 4646
Actual Skylight dimensions mm	692 x 692	692 x 1302	895 x 895	1302 x 1302
Outside Curb dimensions mm	648 x 648	648 x 1257	851 x 851	1257 x 1257
Finished Inside Curb dimensions mm	572 x 572	572 x 1181	775 x 775	1181 x 1181
R Value for Skylight incl. frame (m <sup>2</sup> K/W) 1	0.40	0.40	0.40	0.40
Solar Heat reduction in % 2	76%	76%	76%	76%
UV light reduction in % 3	99%	99%	99%	99%
Sound reduction in db	29 db	29 db	29 db	29 db
Daylight area in m <sup>2</sup>	0.24 m <sup>2</sup>	0.55 m <sup>2</sup>	0.49 m <sup>2</sup>	1.22 m <sup>2</sup>
Ventilation with open sash in m <sup>2</sup>	0.30 m <sup>2</sup>	0.48 m <sup>2</sup>	0.42 m <sup>2</sup>	0.66 m <sup>2</sup>

## SUN TUNNEL – MODELS TWF/TLF/TWR/TLR (Installed pitch 15°– 60°)

SIZE CODES	010	014
Internal diameter dimensions in mm	250	350
R value for Complete unit (m <sup>2</sup> K/W) 1	0.45	0.45
UV light reduction in % 3	99%	99%

NOTE: INTEGRA® Skylights, Blinds and Controls operate at radio frequency of 2.4GHz

## VALUES ARE DETERMINED ACCORDING TO THE FOLLOWING STANDARDS:

MODELS	GGU/GGL	FCM/VCM/VCE/FS/VS/VSE	TWF/TLF/TWR/TLR
1 Thermal resistance of complete unit	EN ISO 12567-2	NFRC 102	NFRC 100
2 Solar Heat reduction in %	EN 410	NFRC 200	
3 UV light reduction	EN 410	NFRC 300	VELUX internal tests
4 Sound reduction of complete unit in dB	EN ISO 717-1		

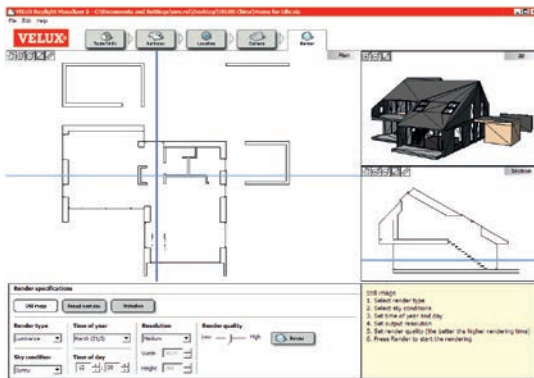
# VELUX Daylight Visualiser

An Intuitive and User-Friendly Simulation Tool for Accurate Daylighting Predictions - developed for architects/designers.

To download for FREE: [viz.velux.com](http://viz.velux.com)

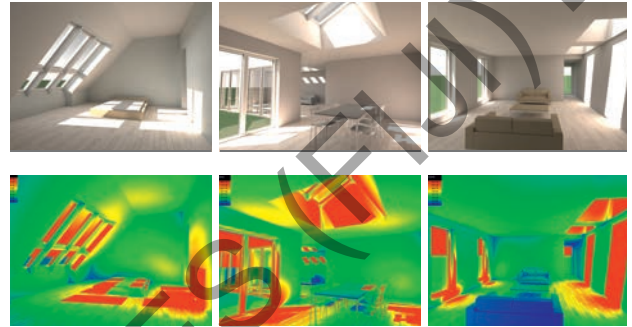
## Intuitive user interface

The user interface functionalities, layout and usability have been designed to make the tool intuitive and accessible to a wide range of users.



## 3D modeller

An integrated 3D modeller with automated functionalities makes the modelling process accessible.



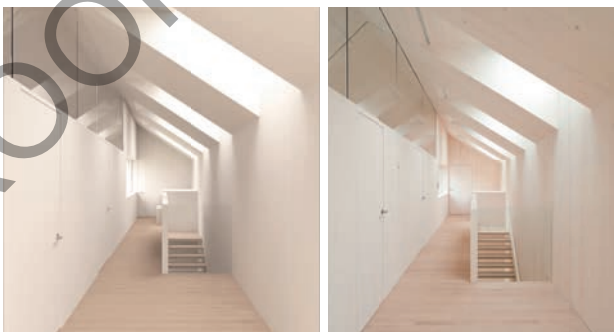
## Metrics and results

Recognized metrics and performance indicator are used, including luminance, illuminance and daylight factor.



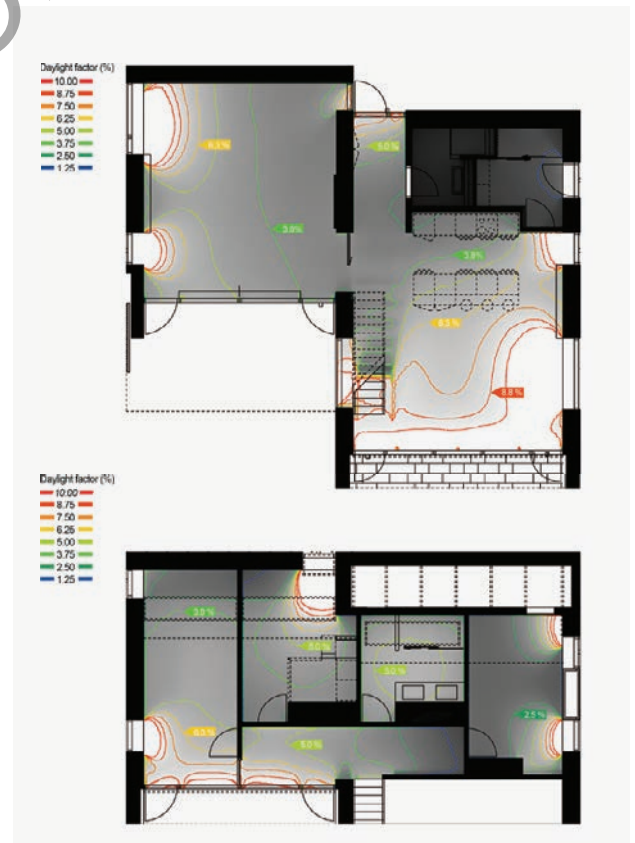
## Accurate predictions

Daylight Visualizer has been validated against CIE 171:2006 Test Cases to Assess the Accuracy of Lighting Computer Programs by ENTPE, l'École Nationale des Travaux Publics de l'État in France.



## 3D importer

A 3D importer permits users to import complex models generated by most CAD applications.





### **CAD drawings**

The latest CAD drawings can be downloaded from: [velux.co.nz](http://velux.co.nz)

### **Installation Instructions**

Detailed installation instructions can be downloaded from: [velux.co.nz](http://velux.co.nz)

### **Where to buy**

VELUX products are sold through most leading building merchants such as Bunnings, Carters, ITM, Mitre 10, PlaceMakers.

To find a store near you visit: [velux.co.nz](http://velux.co.nz)

### **Where to view**

VELUX Skylights can be viewed in the leading home builders' showhomes.

To find a showhome near you visit: [velux.co.nz](http://velux.co.nz)





For more information call 0800 650 445  
or visit [www.velux.co.nz](http://www.velux.co.nz)

## Skylights

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