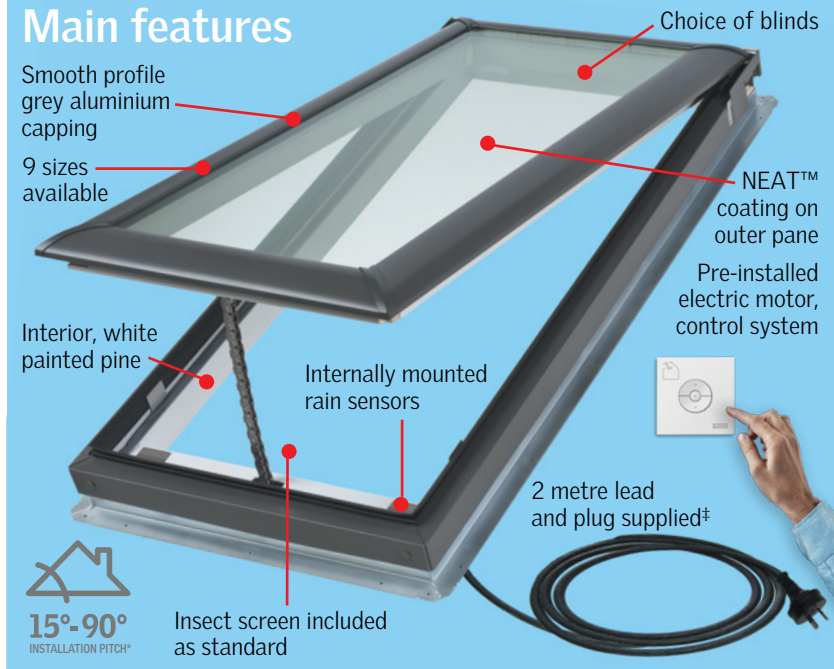


# VSE Electric Skylight Pitched Roof

## Main features



**10 YEAR WARRANTY**  
on skylights,  
flashings & glazing

**3 YEAR WARRANTY**  
on blinds, accessories  
& electric controls

## VSE technical performance

Code Mark is a voluntary certification scheme owned by the Commonwealth of Australia that provides legally binding evidence of compliance to the National Construction Code of Australia. One certificate replaces dozens of technical papers.



### Australian Standards

VELUX Skylights are tested and approved to the appropriate Australian Standards.

### AS4285 SKYLIGHTS± Cyclonic & Non-Cyclonic

Cyclonic Rating -2.8kPa

### AS1288 OVERHEAD GLAZING Laminated inner pane

### AS3959 BUSHFIRE Attack Level 40^

### NCC BOUNDARY SEPARATION† Class 1 & Class 10 buildings: Within 900mm of a boundary wall Class 2 to Class 9 buildings: 3 metres from a boundary wall^

VELUX Skylights are deemed non-combustible by CSIRO and thereby comply with NCC boundary separation requirements.

### BASIX Selection Guide Timber, Low-E, Double glazed, Argon filled

† CSIRO assessment report available on request. VELUX recommends consultation with relevant authority before work commences. Skylight assessed in closed position.

^ Roof pitch 18°-75°. Skylight only. Custom-made flashing required. Skylight tested in closed position, metal flywire mesh protection may be required for opening apertures (consult local council).

^^ Skylight cannot be closer than 3m unless the boundary is adjoining a road or public place. Consult NCC for further details.

## Construction

Quality frame made from Ponderosa pine. Factory treated with a base preservative to reduce mould and mildew.

Further treated with a coat of white paint for a clean white interior finish.

## Wireless control

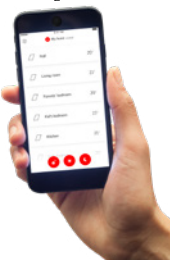
The VSE Skylight comes complete with a pre-programmed radio frequency controller for skylight operation.

Internally mounted rain sensors, exposed to the rain when the skylight is open, automatically close the skylight once rain is detected\*\*.

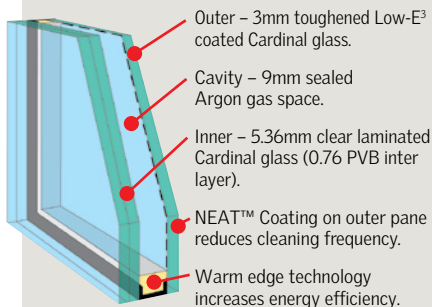
## VELUX ACTIVE

Indoor climate control (sold separately)

- **Sensor-based ventilation:** Smart sensors continuously monitor temperature, humidity and CO<sub>2</sub> levels and open or close your skylights accordingly.
- **Stay in control:** Use the app to operate your skylights and blinds using your smartphone.



## High Performance Double Glazing



### Benefits:

- Radiant heat block: Complete window **approx 80%**  
Glass only **approx 70%**
- UV Harmful rays block **approx 99%**
- WERS rating **5 stars**
- Double layer of Low-E<sup>3</sup> coating.
- 10 year warranty on insulated glass seal.
- Reduced cleaning frequency.

### Australian Standard AS1288

Laminated glass (standard with VSE) must be used for skylights installed 3m or more above floor level.

## NEAT™ Photocatalytic Coating

- Silicene Dioxide/Titanium Dioxide coating reacts with the sun's UV rays to decompose surface organic dirt before rinsing away with the next shower of rain, thereby reducing cleaning frequency.
- The coating also makes the glass surface smoother, so water disperses evenly, sheets off, and evaporates quickly; thereby minimising water spotting on the pane.



## Hailstone Test

VELUX Simulated Tests ††ASTM E822-2009.

†† ASTM E822-2009 standard practice for determining resistance of Solar Collector Covers to Hail impact with propelled ice balls.

## Energy rating

VSE Skylights have been energy rated in accordance with the Skylight Energy Rating Scheme (WERS).

★★★★★ **Maximum 5 stars Summer Ratings**

4.5 out of 5 stars for Winter Rating.  
4.5 out of 5 stars for Cool Daylight in Summer.

## Technical Values

### U-value (W/m²K)

Complete skylight	2.50
Glass only	1.93

### Solar Heat Gain Co-efficient

Complete skylight	0.21
Glass only	0.28

### Visible Light Transmittance

Complete skylight	0.48
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### Luminous Efficacy (Ke = VT/SHGC)

Complete skylight	2.29
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### Acoustic performance

Complete skylight	32dB#
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Figures generated by AFRC accredited simulators. Figures based on complete skylight: nominal size 1140mm (W) x 1180mm (H).  
# Based on Rw value tested to AS1276.1.

‡ Requires connection to a GPO (power outlet) which can be located in the roof space.

\* For roofs below 15° pitch, skylights need to be raised to 15° and custom flashed. VELUX can assist with technical advice and drawings.  
(NB: build-up not recommended in Bushfire areas).

\*\*Activation causes the skylight to close faster than normal operation.

# VSE Electric Skylight Pitched Roof

## Choice of solar powered blinds

The thermal performance of VSE Skylights can be enhanced with the inclusion of a blind. Different levels of light and heat control are available by using either Honeycomb or Blockout blinds. Tailor-made to fit perfectly to each size of skylight, they are easy to install and are supplied with white powder-coated aluminium side channels allowing blinds to be positioned at any point on the skylight.

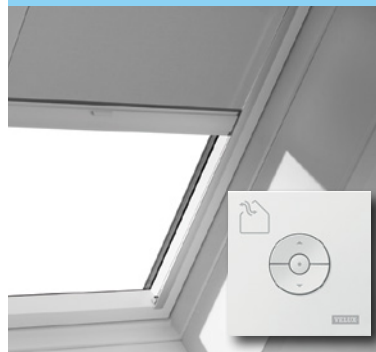
No additional electrical control system required when adding blinds. (Blinds supplied with wireless wall-mounted keypad).

### Honeycomb blinds



- Adds a decorative effect.
- Colour: White on both sides.
- Materials: Double layered pleats (polyester) form a 'honeycomb' structure. Inner faces of honeycomb structure have aluminium coating. White powder-coated aluminium side channels and top cover.
- Provides near total light reduction.
- Reduce heat by approx 60%.^
- Easy to install.

### Blockout blinds



- Provides blackout from light.
- Colour: White on internal side. Silver coating on external side.
- Materials: Light-tight polyester with heat resistant coating. White powder-coated aluminium side channels and top cover.
- Provides near total light reduction.
- Reduce heat by approx 40%.^
- Easy to install.

Blinds sold separately.

## Choice of flashing

### EDW flashing



EDW flashing is used for skylights installed into tiled roofs and low profiled metal roofs (such as corrugated iron and spandek- not suitable for metal profiles such as Klip-Lok, Trimdek).



### EDL flashing



EDL flashing is used for skylights installed into slate or shingle roofs – typically 4-8mm thick. 'L' shaped sections are provided that act as soaker pieces on either side of the skylight.



### EKW combination flashing



Designed for installing multiple skylights side-by-side or above-below. Skylights must be spaced 100mm apart. EKW suitable for same roofs as EDW flashing.



NB: For roofs below 15° pitch, skylights need to be raised to 15° and custom flashed. VELUX can assist with technical advice and drawings. (NB: build-up not recommended in Bushfire areas.)

**NB: NEW VELUX blinds and flashings do not fit older VELUX products. Contact VELUX to check availability of suitable blinds and flashings.**

## VSE – frame and glazing dimensions

Profile height above batten 130mm

Product/size code	C01	C04	C06	C08	M04	M06	M08	S01	S06
Overall frame size wxh – mm	550x700	550x980	550x1180	550x1400	780x980	780x1180	780x1400	1140x700	1140x1180
Internal glass size wxh – mm	407x519	407x799	407x999	407x1219	637x799	637x999	637x1219	997x519	997x999
Daylight area (M <sup>2</sup> )	0.21	0.33	0.41	0.50	0.51	0.64	0.78	0.52	1.00
Ventilation area (M <sup>2</sup> )	0.31	0.44	0.54	0.64	0.65	0.79	0.95	0.68	1.20
Weight in kg*	20.8	25.2	29.9	32.3	31.9	35.9	40.2	36.2	48.6

Skylights can only be installed as per orientation depicted above.

NB: Opening Restrictors: NCC Vol 1 & 2 regulations (Prevention of Falls from Windows – Balustrades & Barriers): contact VELUX for information relating to restrictor devices for within-reach opening skylights.

\* Weight includes flashing.

^ Based on VELUX internal testing with 3076 model Roof Window.