VSE Electric Skylight
Pitched Roof

Main features
- Smooth profile grey aluminium capping
- 9 sizes available
- Interally mounted rain sensors
- NEAT™ coating on outer pane
- Pre-installed electric motor, control system
- Insect screen included as standard

Construction
Quality frame made from Ponderosa pine. Factory treated with a base preservative to reduce mould and mildew. Further treated with paint (2 coats) for a clean white interior finish.

Wireless control
The VSE Skylight comes complete with a pre-paired 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**.

High Performance Double Glazing
- Outer – 3mm toughened Low-E³ coated Cardinal glass.
- Cavity – 9mm sealed Argon gas space.
- Inner – 5.36mm clear laminated Cardinal glass (0.76 PVB inter layer).
- NEAT™ Coating on outer pane reduces cleaning frequency.
- Warm edge technology increases energy efficiency.

Benefits:
- Radiant heat block: Complete window approx 80% Glass only approx 70% WERS rating 5 stars
- UV Harmful rays block approx 99%
- Double layer of Low-E³ 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.

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

- Maximum 5 stars
- 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
- Luminous Efficacy (Ke = VT/SHGC)
  Complete skylight 2.29
- Acoustic performance
  Complete skylight 32dB*

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

- AS4285 SKYLIGHTS
  Cycloidal & Non-Cycloidal
- AS1288 OVERHEAD GLAZING
  Laminated inner pane
- AS3959 BUSHFIRE
  Attack Level 40°*
- AS1530.8.1: BCA BOUNDARY SEPARATION
  Class 1 & Class 10 buildings:
  Within 900mm of a boundary wall:
  Class 2 & Class 9 buildings:
  3 metres from a boundary wall
- VELUX Skylights are deemed non-combustible by CSIRO and thereby comply with BCA Fire Separation requirements.

Facade Test
VELUX Skylights are tested to AS1276.2, AS1288 & AS4285 standards.

Energy efficiency
VELUX Skylights exceed the energy performance levels required by Australian Standards.

Hailstone Test
VELUX Skylights have been tested to AS1276.1 and AS4285 standards to confirm they are resistant to Hailstones.

Hailstone test not performed on solar panel.

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

- CSIRO assessment report available on request. VELUX
  recommends consultation with relevant authority before work
  commencement. Skylight advanced in closed position.
- Roof pitch 18°-75° Skylight only. Custom-made flashing required.
- Skylight tested in closed position, additional 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. ComAll 2008 for further details.

Figures generated by AFRC accredited simulators. Figures based on complete skylight nominal size 1140mm (W) x 1180mm (H). A Based on RW value tested to AS1276.1.
Technical Data

**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 Blockout or Honeycomb blinds. Tailor-made to fit perfectly to each size of skylight, they are easy to install and are supplied with 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 remote control).

**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.
- Near-total light reduction.
- Reduce heat by approx 60%.
- Easy to fit using VELUX [Pick & Click!](#) system.

**Blockout blinds**

- Provides blockout from light.
- Colour: White on internal side. Silver coating on external side.
- Materials: Light-tight polyester with heat resistant coating. Aluminium side channels and top cover.
- Near-total light reduction.
- Reduce heat by approx 40%.
- Easy to fit using VELUX [Pick & Click!](#) system.

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. (NEB build-up not recommended in Bushfire areas.)

**VSE – frame and glazing dimensions**

<table>
<thead>
<tr>
<th>Product/size code</th>
<th>Overall frame size w×h – mm</th>
<th>Internal glass size w×h – mm</th>
<th>Daylight area (M²)</th>
<th>Ventilation area (M²)</th>
<th>Weight in kg*</th>
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<tbody>
<tr>
<td>CO1</td>
<td>550×700</td>
<td>407×519</td>
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</table>

* Daylight area, ventilation area and weight are rounded values.

Skylights can only be installed as per orientation depicted above.

NB: Opening Restrictors: BCA 2013 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.

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