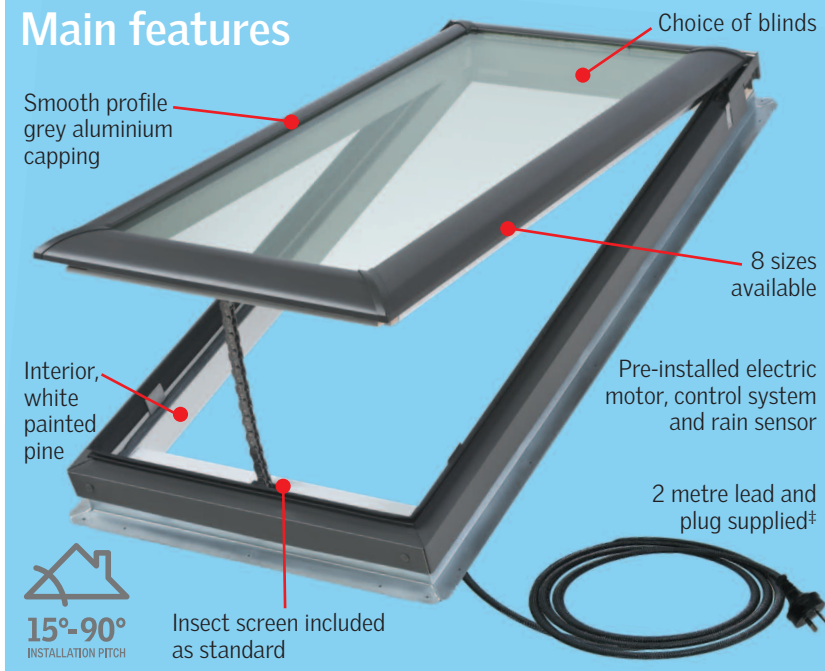


# VSE electronically operated top-hung skylight

## Main features



## VSE technical performance

### Australian Standards

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

**AS4285 SKYLIGHTS** Cyclonic & Non-Cyclonic ✓

**AS1288 OVERHEAD GLAZING** Laminated inner pane† ✓

**AS3959 BUSHFIRE** Attack Level 40^ ✓

† 2004 glazing variant.

^ Bushfire testing applicable to 2004 glazing variant skylight in roof pitch 18°-75°. Skylight only. Custom-made flashing required. Additional mesh protection may be required for opening apertures (consult local council).

### Building Code compliance

VELUX Skylights are deemed non-combustible and thereby comply with BCA Fire Separation requirements (i.e. suitable for use within 900mm from allotment boundary/separation wall)\*.

\* CSIRO assessment report available on request. VELUX recommends consultation with relevant authority before work commences.

## Construction

Quality frame of 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 self programming radio frequency remote with advanced

control options for both skylights and blinds operations.

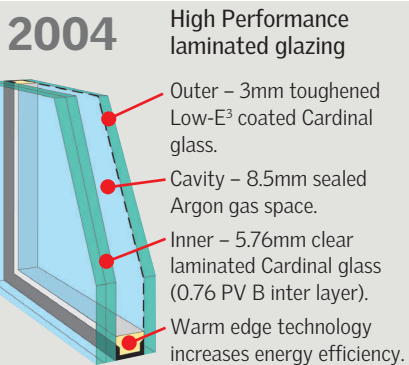
Externally mounted rain sensor automatically closes the skylight once rain is detected\*\*.

One remote (provided) can operate up to 200 VSE Skylights.

Timer function included.



## High Performance glazing as standard



Benefits:	2004
• Radiant heat block	<b>80%</b>
• UV rays block	<b>99%</b>
• Noise reduction factor	<b>32dB</b>
• WERS rating	<b>5 stars</b>
• Double layer of Low-E³ coating	✓
• 10 year warranty on insulated glass seal	✓

### Australian Standard AS1288

2004 laminated glass 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 Summer Ratings**

4.5 out of 5 stars for Winter Rating.

4.5 out of 5 stars for Cool Daylight in Summer.

## Glazing performance

Glazing type	2004
<b>U-value (W/m²K)</b>	
Complete skylight	2.50
Glass only	1.93
<b>Solar Heat Gain Co-efficient</b>	
Complete skylight	0.21
Glass only	0.27
<b>Visible Light Transmittance</b>	
Complete skylight	0.48
<b>Luminous Efficacy (Ke = VT/SHGC)</b>	
Complete skylight	2.29

All figures generated by AFRC accredited simulators. Figures based on nominal size 1200mm (H) x 1200mm (W).

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

\*\*Activation causes the skylight to close faster than normal operation. Rain Sensor can be de-activated for a set period using the remote control unit.

# VSE electronically operated top-hung skylight

## Choice of electronically controlled 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 Venetian 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.

### Blockout blinds



- Provides blockout from light.
- Colour: White on internal side. Silver coating on external side.
- Materials: Light-tight polyester with heat resistant coating. Clear, anodized aluminium side channels and top cover.
- Reduce light by approx 100%. Reduce heat by approx 56%.

### Venetian blinds



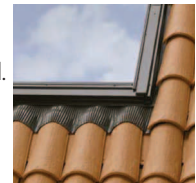
- Controls the amount and direction of light.
- Colour: Egg-shell white on both sides.
- Materials: 35mm wide slimline aluminium blades. Clear, anodized aluminium side channels and top cover.
- Reduce light by up to 85%. Reduce heat by approx 50%.

Now even easier to fit using VELUX **Pick&Click!** system.

## Choice of flashing

### EDW flashing for profiled roofing material

EDW flashing is used for skylights and roof windows being installed into tile or corrugated (or similar) roofing. Concrete or terracotta tiles with standard profiles can be used. Custom orb profile metal roofing can be used.



### EDL flashing for flat roofing material

EDL flashing is used for skylights and roof windows being 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 or roof window.



\* For roofs below 15° pitch, skylights need to be raised to 15° and custom flashed. VELUX can assist with technical advice and drawings on this type of installation.



**NB:** When used in side-by-side/above-below combination, skylights must be 100mm apart.

## VSE – frame and glazing dimensions – technical details

2004 High Performance double glazing as standard

Product/size code (Old code – pre April 2010)	C01 (101)	C04 (104)	C08 (108)	M04 (304)	M06 (306)	M08 (308)	S01 (601)	S06 (606)
Overall frame size wxh – mm	550x700	550x980	550x1400	780x980	780x1180	780x1400	1140x700	1140x1180
Internal glass size wxh – mm	407x519	407x799	407x1219	637x799	637x999	637x1219	997x519	997x999
Daylight area (M <sup>2</sup> )	0.21	0.33	0.50	0.51	0.64	0.78	0.52	1.00
Ventilation area (M <sup>2</sup> )	0.24	0.33	0.44	0.39	0.44	0.49	0.40	0.54
2004 High Performance glazing sizes available	✓	✓	✓	✓	✓	✓	✓	✓

**N.B.** No additional electrical control system required when adding blinds. (Blinds use remote control supplied with VSE.)  
New VELUX blinds and flashings do not fit VELUX Skylights manufactured prior to March 2010 and must be ordered accordingly.  
DMH Electrical Blockout blind not available for C08 Skylight. (NB: DSH Solar Blockout blind can be used.)