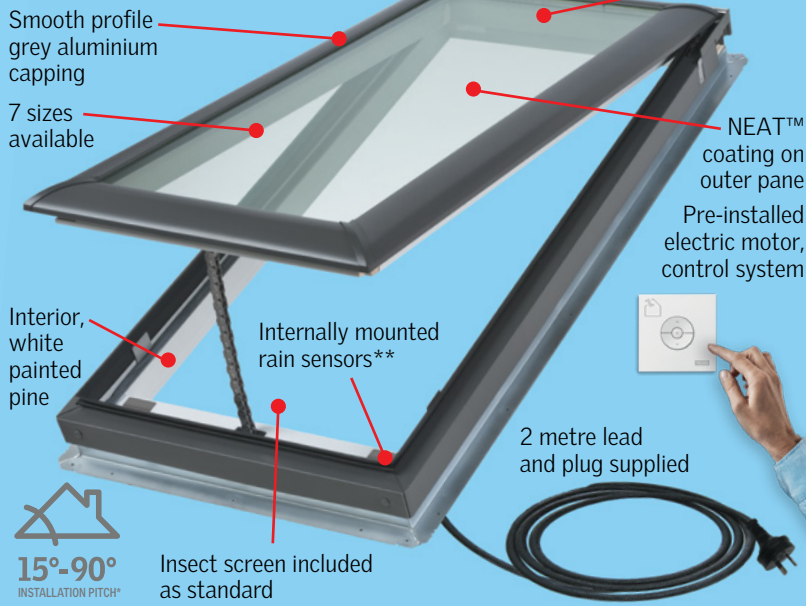


VSE Electric Skylight Pitched roof

Main features



Construction

Quality frame made from Ponderosa pine. Factory treated with a wood preservative and further treated with white enamel paint (2 coats) for a clean interior finish.

Aluminium external capping finished in a smooth grey colour, similar to 'COLORSTEEL® Grey Friars'.

Wireless control

The VSE Skylight comes complete with a pre-programmed wireless wall mounted keypad for skylight operation. Internally mounted rain sensors, exposed to the rain when the skylight is open, automatically close the skylight once rain is detected**

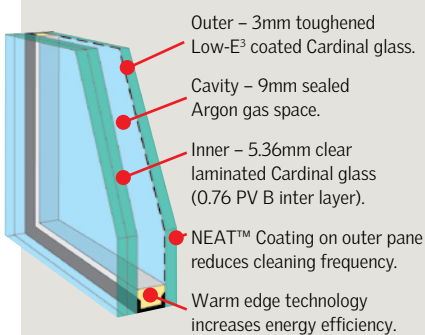
VELUX ACTIVE

Indoor climate control (sold separately)

- **Sensor-based ventilation:** Smart sensors continuously monitor temperature, humidity and CO₂ 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**
- Low-E³ coating. ✓
- Reduced cleaning frequency. ✓

New Zealand Standard 4223.4

Laminated glass (standard) must be used for skylights installed 5m or more above floor level.

NEAT™ Photocatalytic Coating

- Silicone 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.

VSE technical performance

CodeMark® is a voluntary scheme owned by the Ministry of Business, Innovation & Employment that provides an easily understood and robust way to show a building product, design or method meets the requirements of the New Zealand Building Code. CodeMark is unchallengeable and has legal status equivalent to that of an Acceptable Solution or Verification Method.



New Zealand Standards

VELUX Skylights are tested and appraised to the appropriate New Zealand Standards.

NZS4223 NZS3604 NZS1170

AS4285 SKYLIGHTS Cyclonic & Non-Cyclonic

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.

WORLD-CLASS QUALITY



LOAD TESTED (NZBC Clause B1)



DURABILITY (NZBC Clause B2)



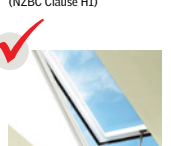
WEATHERTIGHTNESS (NZBC Clause E2)



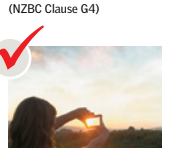
SAFETY GLAZING (NZBC Clause F2)



ENERGY EFFICIENCY (NZBC Clause H1)



VENTILATION (NZBC Clause G4)



NATURAL LIGHT (NZBC Clause G7)

NB: CodeMark certification and BRANZ appraisal scope does not cover installations over 60°.

Technical Values

R-value*	
Complete skylight	0.50
Solar Heat Gain Co-efficient†	
Complete skylight	0.23
Visible Light Transmittance	
Complete skylight	0.54
Luminous Efficacy (Ke = VT/SHGC)	
Complete skylight	2.35
Acoustic performance	
Complete skylight	32dB#

* R-value (m² K/W) and SHGC data based on NFRC simulations at 90° installation pitch (VSE nominal skylight size 1200mm x 1200mm).
Based on STC value tested to AS1276.1.

* For roofs below 15° pitch, skylights need to be raised to at least 15° and custom flashed. (Not supplied by VELUX). Refer to website or contact VELUX for technical advice and drawings. **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 Blackout or Honeycomb 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 (FSCH)



- Provides near total light reduction.
- Colour: White material and rails.
- Materials: Double layered pleats (polyester) form a 'honeycomb' structure. Inner structure of honeycomb has aluminium coating. White powder-coated aluminium side channels and top cover.
- Reduce heat by approx 60%.[^]
- Unique installation system allows easy installation.

Blinds sold separately.

Blackout blinds (DSH)



- Provides near total light reduction.
- Colour: White rails and internal fabric, silver coating on external fabric face.
- Materials: Light-tight polyester with heat resistant coating. White powder-coated aluminium side channels and top cover.
- Reduce heat by approx 40%.[^]
- Unique installation system allows easy installation.

Choice of flashing

EDW flashing



EDW flashing is used for skylights installed into tiled roofs and profiled metal roofs (such as corrugated iron – not suitable for concealed clip roof profiles or membrane roofs).



EDL flashing



EDL flashing is used for skylights installed into slate or shingle roofs – max 5mm 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.



* For roofs below 15° pitch, skylights need to be raised to at least 15° and custom flashed. (Not supplied by VELUX). Refer to website or contact VELUX for technical advice and drawings.

Opening Restrictions

Building regulations may require the use of a restrictor device: contact VELUX for information relating to restrictor devices for within-reach opening skylights.

VSE – frame and glazing dimensions

Product/size code ▶	C04	C08	M04	M06	M08	S01	S06
External frame dimensions mm (wxh)	550x980	550x1400	780x980	780x1180	780x1400	1140x700	1140x1180
Internal glass size mm (wxh)	407x799	407x1219	637x799	637x999	637x1219	997x519	997x999
Daylight area (m ²)	0.33	0.50	0.51	0.64	0.78	0.52	1.00
Ventilation with open sash (m ²)	0.44	0.64	0.65	0.79	0.95	0.68	1.20
Weight (kg) including flashings	25.3	32.5	32.2	36.1	40.4	36.0	48.8
Weight (kg) excluding flashings	21.7	28.6	28.0	31.8	35.9	31.2	43.6

Skylights can only be installed as per orientation depicted above.
[^] Based on VELUX internal testing with 3076 model Roof Window.