# **VS** Manual Skylight Pitched Roof



# Construction

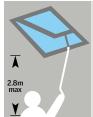
Quality frame made from Ponderosa pine. Factory treated with a base preservative to reduce mould and mildew. Further treated with a coat of white paint for a clean white interior finish.

VS Skylights are operated manually. The VS has a hook included which requires a ZCT 300 rod control to wind the hook and open the sash. Or for applications within reach, the ZZZ 201 winder handle can be used.



#### **ZZZ 201** winder handle

Replaces operating hook for simple winding action to open and close.



## **ZCT 300**

extension rod from 145-285cm.

Attaches to operating hook for simple winding action to open and close.

**ZOZ 032** short control rod

# **High Performance Double Glazing**



- Radiant heat block: Complete window approx 80% approx 70% Glass only approx 99%
- UV Harmful rays block
- WERS rating
- 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 VS) must be used for skylights installed 3m or more above floor level.

# NEAT™ Photocatalytic Coating

increases energy efficiency.

- · 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.

# 10 YEAR WARRANTY on skylights, flashings and glazing

3 YEAR WARRANTY

# VS 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<sup>2</sup>

# 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 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
- recommence Consultation With reveals 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.

# Hailstone Test

VELUX Simulated Tests <sup>††</sup>ASTM E822-2009.

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

## Energy rating

VS Skylights have been energy rated in accordance with the Skylight Energy Rating



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/m<sup>2</sup>K)

2.50 Complete skylight 1.93 Glass only

#### Solar Heat Gain Co-efficient

0.21 Complete skylight Glass only 0.28

# Visible Light Transmittance

Complete skylight 0.48

# Luminous Efficacy (Ke = VT/SHGC)

2 29 Complete skylight

### Acoustic performance

32dB# Complete skylight

All 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.

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# Choice of solar powered blinds

The thermal performance of VS 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.

# 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 nearly total light reduction.
- Reduce heat by approx 60%.^
- · Easy to install.
- · Operated by wireless wall-mounted keypad (provided).

# Blockout blinds



- · Provides blockout 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 nearly total light reduction.
- Reduce heat by approx 40%.^
- Easy to install.
- Operated by wireless wall-mounted keypad (provided).

# **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 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



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  $15^\circ$  pitch, skylights need to be raised to  $15^\circ$  and custom flashed. VELUX can assist with technical advice and drawings. (NB: build-up not recommended in

Blinds sold separately.

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

#### VS - frame and glazing dimensions Profile height above batten 130mm NEW CO1 M02 M04 Product/size code ▶ 550x700 550x980 550x1180 550x1400 780x780 780x980 780x1180 780x1400 1140x700 1140x1180 Overall frame size wxh - mm Internal glass size wxh - mm 407x519 407x799 407x999 407x1219 637x599 637x799 637x999 637x1219 997x519 997x999 Daylight area (M²) 0.21 0.33 0.41 0.50 0.38 0.51 0.64 0.78 0.52 1.00 0.44 Ventilation area (M2) 0.31 0.54 0.64 0.51 0.65 0.79 0.95 0.68 1.20 Weight in kg‡ 28.5 35.2 39.4 35.9 48.1

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.