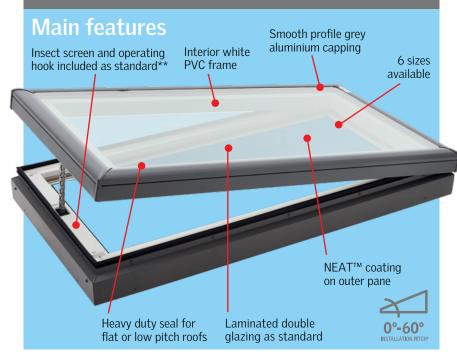


# **VCM** Manual Skylight Flat Roof



## Construction

White PVC frame and sash components with extruded gaskets. White framed insect screen included as standard.

VCM needs a custom flashing made by roofer, see preparation guide overleaf.

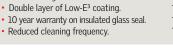
# Operation

VCM Skylights are manually operated. The VCM has a hook included which requires a rod control to wind the hook and open the sash, or for applications within reach, a winder handle can be used.\*\*





- Radiant heat block: Complete window approx 75% approx 70% Glass only approx 99%
- · UV Harmful rays block
- WERS rating



## Australian Standard AS1288

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

§ VCM 4646 outer pane is 3.9mm.

## **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
- VELUX recommends VCM is installed with a slight pitch (e.g. 3°-5°) to help prevent condensation build-up and water ponding on the glass
- \* VELUX recommends VOM is installed with a single priorities, 3 3 7 to long part \*\*Winder handle and extension rods to be purchased separately. Details overleaf.

# WARRANTY

3 YEAR WARRANTY

# VCM technical performance

Commonwealth of Australia that provides legally binding evidence of compliance to the Building 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

### **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 to 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.

- ± Tests performed on skylight installed with #8 roofing screws
- Tests performed on skylight installed with #8 rooting screws (not screws provided). CSIRO assessment report available on request. VELUX recommends consultation with relevant authority before work commences. Skylight assessed in closed position. Roof pitch 0°-60° 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. Consult BCA for further details.

### Hailstone Test

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

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

## **Energy rating**

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



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

U-value (vv/m²K)	
Complete skylight Glass only	2.9 <sup>‡</sup> 1.93

# Solar Heat Gain Co-efficient

Complete skylight	0.24
Glass only	0.28

# Visible Light Transmittance

Complete skylight 0.55

### Luminous Efficacy (Ke = VT/SHGC)

Complete skylight 2.29

## Acoustic performance

31dB# Complete skylight

Figures generated by AFRC accredited simulators. Figures based on complete skylight: nominal size 1140mm (W) x 1180m

- See required installation method overleaf.
   Based on RW value tested to AS1276.1.



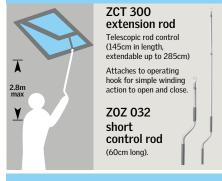
# **VCM** Manual Skylight Flat Roof

# 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.

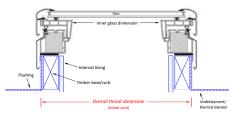
# **Control options**





- VELUX VCM Skylights can be used for flat and low sloping roofs. The low profile external covering and glazing seal prevents water infiltration even at 0°. To help prevent water 'ponding' on the glass a slight pitch (e.g. 3°-5°) is recommended.
- VELUX VCM does not come with a flashing kit but can be used with a variety of custom-made curb flashings. Contact VELUX or a local flashing manufacturer for more information.

# Preparation guide for custom-



Throat on custom-made flashing must not exceed 38mm -

‡Skylight must be installed with timber hob and Gyprock, as shown (typical installation), to achieve 2.9 U-value rating.

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.

# VCM - frame and glazing dimensions

Product/size code ►	2222	2234	2246	3030	3046	4646
Throat dimensions wxh (mm)	692x692	665x970	665x1275	870x870	870x1275	1275x1275
Internal glass size wxh (mm)	495x495	495x799	495x1104	698x698	698x1104	1104x1104
Daylight area (m²)	0.24	0.39	0.55	0.49	0.77	1.22
Ventilation area (m²)	0.46	0.66	0.87	0.77	1.13	1.65
Weight in kg*	19.9	20.9	32.3	29.2	33.6	55.1

Skylights can only be installed as per orientation depicted above.

\* Weight does not include flashing.

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