

# VCM Manual Skylight Flat Roof

## Main features

Smooth profile grey aluminium capping

Heavy duty seal for flat or low pitch roofs

Insect screen and operating hook included as standard\*\*

Laminated double glazing as standard

NEAT™ coating on glass pane

6 sizes available

Interior white PVC frame



## Construction

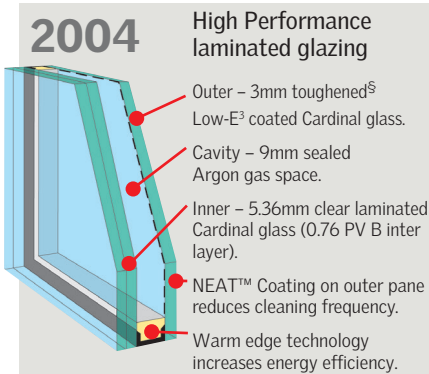
White PVC frame and sash components with extruded gaskets. White framed insect screen included as standard.

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.\*\*

## High Performance Double Glazing as standard



§ VCM 4646 outer pane is 3.9mm.

### Benefits:

- Radiant heat block: Complete window Glass only **approx 75%**
- UV Harmful rays block **approx 70%**
- Noise reduction factor<sup>#</sup> **approx 99%**
- WERS rating **32 decibels**
- Double layer of Low-E<sup>3</sup> coating. **5 stars**
- 10 year warranty on insulated glass seal.
- Reduced cleaning frequency.

### Australian Standard AS1288

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

## 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.  
#Based on STC value tested to ISO/IEC 17025:2005.

**10 YEAR WARRANTY**  
on skylights and glazing

**3 YEAR WARRANTY**  
on blinds and accessories

## VCM technical performance

### Australian Standards

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

**AS4285 SKYLIGHTS<sup>±</sup>**  
Cyclonic & Non-Cyclonic

**AS1288 OVERHEAD GLAZING**  
Laminated inner pane

**AS3959 BUSHFIRE**  
Attack Level 40<sup>^</sup>

**AS1530.1: BCA BOUNDARY SEPARATION<sup>†</sup>**  
**Class 1 & Class 10 buildings:**  
Within 900mm of a boundary wall  
**Class 2 to Class 9 buildings:**  
3 metres from a boundary wall<sup>^^</sup>

VELUX Skylights are deemed non-combustible and thereby comply with BCA Fire Separation requirements.

± Tests performed on skylight installed with #8 roofing 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.

## Energy Rating

VCM Openable 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 type 2004

### U-value (W/m<sup>2</sup>K)

Complete skylight	2.9 <sup>‡</sup>
Glass only	1.93

### Solar Heat Gain Co-efficient

Complete skylight	0.24
Glass only	0.28

### Visible Light Transmittance

Complete skylight	0.55
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### Luminous Efficacy (Ke = VT/SHGC)

Complete skylight	2.29
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All figures generated by AFRC accredited simulators. Figures based on complete skylight: nominal size 1140mm (W) x 1180mm (H).

‡ See required installation method overleaf.

\*\*Winder handle and extension rods to be purchased separately. Details overleaf.

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## Solar Powered Blockout blind



- Uses the sun's energy to power the built-in motor.
- Operated by wireless wall-mounted keypad (provided).
- 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.
- Reduce light by approx 100%.
- Reduce heat by approx 40%.<sup>^</sup>
- Easy to fit using VELUX **Pick & Click!**<sup>®</sup> system.

Blinds sold separately.

## Control options

### Out of reach situations

**ZCT 300 extension rod**  
Telescopic rod control (145cm in length, extendable up to 285cm)  
Attaches to operating hook for simple winding action to open and close.

**ZOZ 032 short control rod**  
(60cm long).

### Within reach situations

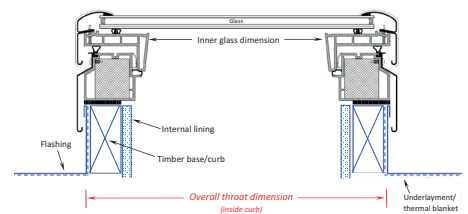
**ZZZ 212 winder handle**

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

## Important considerations

- 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-made flashing



Throat on custom-made flashing must not exceed 35mm – otherwise Gyprock, when installed, will encroach upon glass area.

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

## 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.

## VCM – frame and glazing dimensions

2004 High Performance laminated glazing as standard

Product/size code ▶	2222	2234	2246	3030	3046	4646
Throat dimensions wxh (mm)	665x665	665x970	665x1275	870x870	870x1275	1275x1275
Internal glass size wxh (mm)	495x495	495x799	495x1104	698x698	698x1104	1104x1104
Daylight area (m <sup>2</sup> )	0.24	0.39	0.55	0.49	0.77	1.22
Ventilation area (m <sup>2</sup> )	0.30	0.39	0.48	0.42	0.54	0.66
2004 High Performance glazing	✓	✓	✓	✓	✓	✓
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.

<sup>^</sup>Based on VELUX internal testing with 3076 model Roof Window.