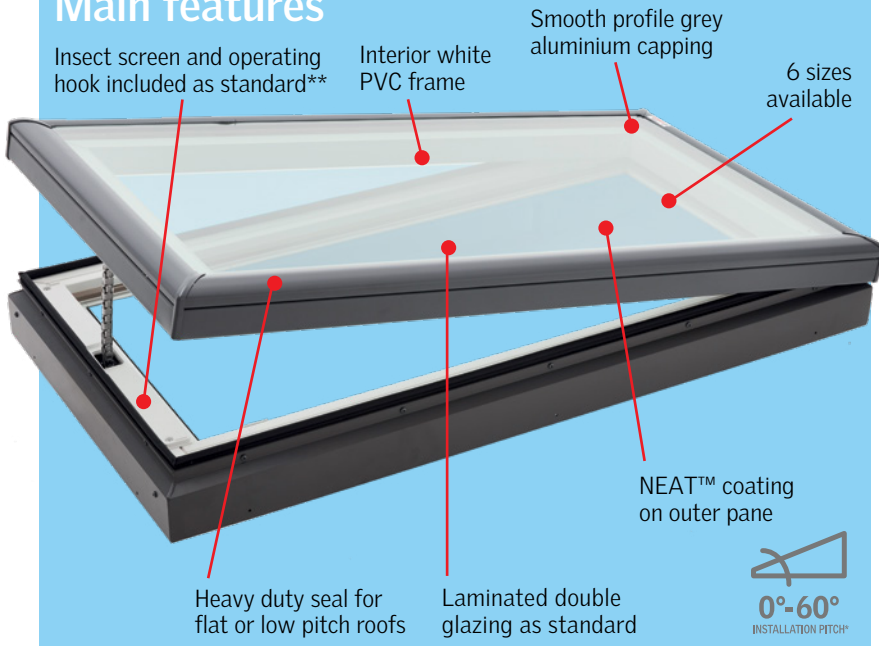


VCM Manual Skylight Flat/low-pitched roof

Main features



Construction

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

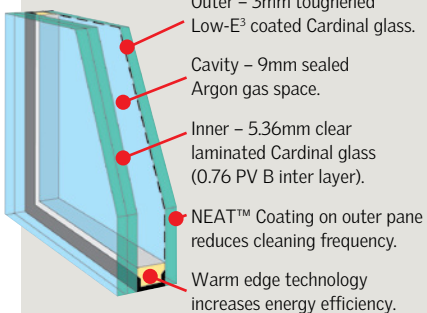
Aluminium external capping finished in a smooth grey colour, similar to 'COLORSTEEL® Grey Friars'.

Curb mounted VCM needs a custom flashing made by roofer. 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



Benefits:

- Radiant heat block: Complete window **approx 76%**
Glass only **approx 70%**
- Harmful UV 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.

* The VCM is watertight for pitches between 0-60°, though raising the installation pitch to 10° may be preferred for best aesthetic appearance. Below this pitch you are likely to experience water ponding on the glass.

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

VCM technical performance

New Zealand Standards

VCM 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

VCM 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.



BRANZ Appraised
Appraisal No.958 [2017]

WORLD-CLASS QUALITY



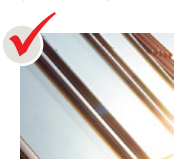
LOAD TESTED
(NZBC Clause B1)



DURABILITY
(NZBC Clause B2)



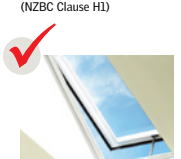
WEATHERTIGHTNESS
(NZBC Clause E2)



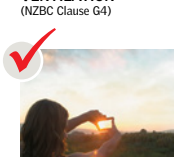
SAFETY GLAZING
(NZBC Clause F2)



ENERGY EFFICIENCY
(NZBC Clause H1)

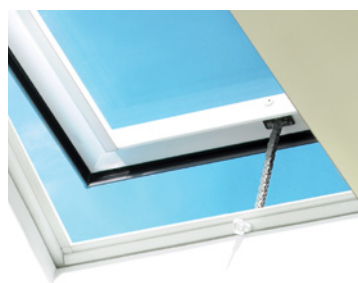


VENTILATION
(NZBC Clause G4)



NATURAL LIGHT
(NZBC Clause G7)

NB: BRANZ appraised scope does not cover custom flashing.



Technical Values

R-value‡
Complete skylight 0.40

Solar Heat Gain Co-efficient*
Complete skylight 0.24

Visible Light Transmittance
Complete skylight 0.55

Luminous Efficacy (Ke = VT/SHGC)
Complete skylight 2.29

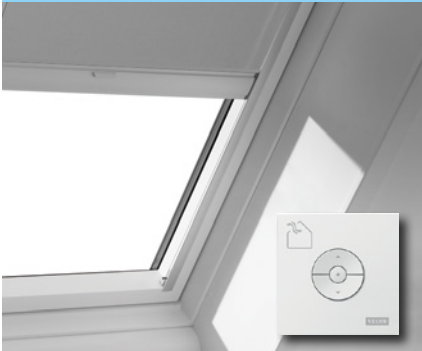
Acoustic performance
Complete skylight 31dB#

‡ R-value (m² K/W) and SHGC data based on NFRC simulations at 90° installation pitch (VCM nominal skylight size 1200mm x 1200mm).

#Based on RW value tested to AS1276.1.

VCM Manual Skylight Flat/low-pitch

Solar-Powered Blackout Blind (DSC)



- Provides blackout 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%[^].
- Increased thermal efficiency.

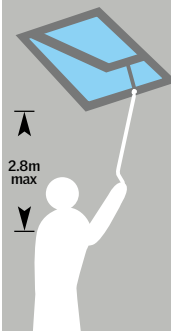
Solar

- Uses the sun's energy to power the built-in motor.
- Operated by wireless wall-mounted keypad (provided).
- Easy to fit using VELUX **Pick&Click!**[®] system.

Blinds sold separately.

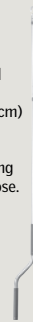
Control options

Out-of-reach



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.



Within reach situations



ZZZ 212 winder handle

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



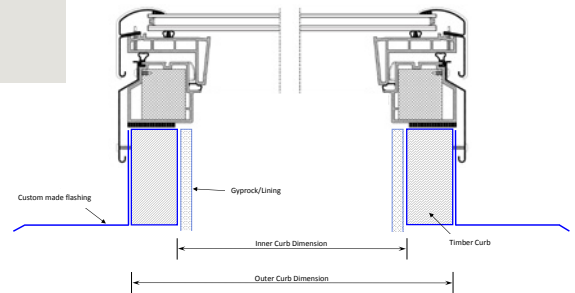
Important considerations

- VELUX VCM Skylights can be used for low sloping roofs. The low profile external covering and glazing seal prevents water infiltration even at 0°. Raising the installation pitch to 10° may be preferred for best aesthetic appearance. Below this pitch you are likely to experience water ponding on the glass.
- VCM is a curb mounted skylight and requires a custom made flashing to be made by roofer. See below for curb dimensions. (No VELUX proprietary flashing available).

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.

Preparation guide for custom-made flashing



VCM – frame and glazing dimensions

Profile height above batten 130mm

Product/size code ▶	2222	NEW 2234	2246	3030	NEW 3046	4646
External frame dimensions wxh (mm)	692x692	692x997	692x1302	895x895	895x1302	1302x1302
Outer curb dimensions wxh (mm)	645x645	645x950	645x1255	850x850	850x1255	1255x1255
Inner curb dimensions wxh (mm)	572x572	572x876	572x1181	775x775	775x1181	1181x1181
Daylight area (m ²)	0.24	0.39	0.55	0.49	0.77	1.22
Ventilation area (m ²)	0.29	0.39	0.48	0.42	0.54	0.66
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.