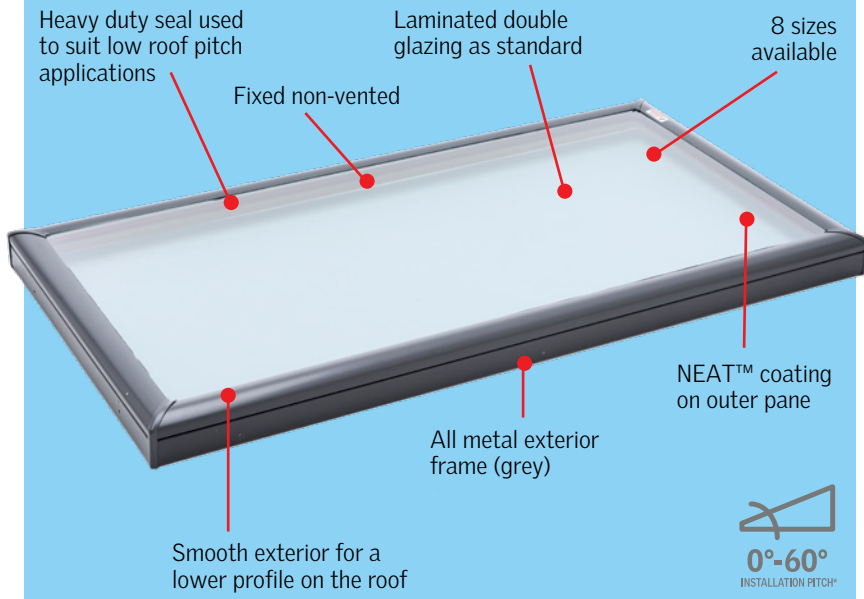


FCM Fixed Skylight Flat/low-pitched roof

Main features



FCM technical performance

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

FCM 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



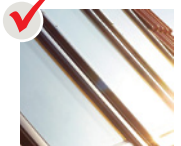
LOAD TESTED
(NZBC Clause B1)



DURABILITY
(NZBC Clause B2)



WEATHERTIGHTNESS
(NZBC Clause E2)



SAFETY GLAZING
(NZBC Clause F2)



ENERGY EFFICIENCY
(NZBC Clause H1)



NATURAL LIGHT
(NZBC Clause G7)

NB: BRANZ appraised scope does not cover custom flashing.

Construction

The brilliantly simple fixed, non-vented, FCM flat roof skylight incorporates the VELUX High Performance glazing unit and an all metal exterior frame.

The smooth exterior gives not only a lower profile on the roof, but also provides

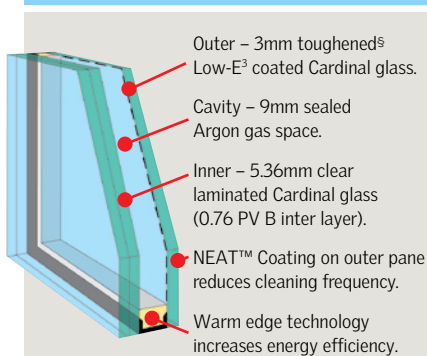
a "cool" daylighting solution by effectively blocking heat build up and UV rays.

Maintenance-free PVDF lacquered aluminium frame withstands the extremes of the New Zealand climate.

Frame is finished in a smooth grey colour, similar to 'COLORSTEEL® Grey Friars'.

Versatile positioning: most sizes can be used in portrait, landscape or even "diamond shape" orientation.†

High Performance Double Glazing



Benefits:

- Radiant heat block: Complete window **approx 73%**
Glass only **approx 70%**
- UV Harmful rays block **approx 99%**
- WERS rating **5 stars**
- Low-E³ coated. ✓
- Reduced cleaning frequency. ✓

New Zealand Standard 4223.4

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

§FCM 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.



* The FCM 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.

Technical Values

R-value‡

Complete skylight 0.44

Solar Heat Gain Co-efficient‡

Complete skylight 0.27

Visible Light Transmittance

Complete skylight 0.64

Luminous Efficacy (Ke = VT/SHGC)

Complete skylight 2.51

Acoustic performance

Complete skylight 29dB#

‡ R-value (m² K/W) and SHGC data based on NFRC simulations at 90° installation pitch (FCM nominal skylight size 1275mm x 1275mm).

† See preparation guide overleaf.

#Based on RW value tested to AS1276.1.

FCM Fixed Skylight Flat/low-pitched roof



Important considerations

- VELUX FCM 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.

Blinds for FCM

Blackout blind manual (DKC)

For complete room darkening. Colour – white. Accessory Tray ZZZ 199 required. For out of reach operation order telescopic rod ZXT 200.

Solar Blackout blind (DSC)

For complete room darkening. Colour – white. Includes a keypad and pre-charged solar battery. Accessory Tray ZZZ 199 required.

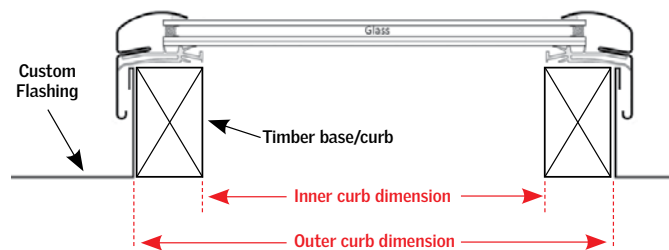
Blinds, accessories and control rods sold separately.

NB: Blinds not available for FCM 2270.

Custom-made flashing required

FCM 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).

Preparation guide for custom-made flashing



FCM – frame and glazing dimensions

High Performance Double Glazing as standard

Product/size code ▶	2222	2234	2246	2270 [†]	3030	3046	3434	4646
External frame dimensions (wxh) mm	692x692	692x997	692x1302	692x1911	895x895	895x1302	997x997	1302x1302
Outer Curb dimensions (wxh) mm	645x645	645x950	645x1255	645x1865	850x850	850x1255	950x950	1255x1255
Inner Curb dimensions (wxh) mm	572x572	572x876	572x1181	572x1791	775x775	775x1181	876x876	1181x1181
Daylight area (m ²)	0.33	0.50	0.68	1.02	0.60	0.92	0.77	1.39
Weight (kg) excluding flashing	11.0	15.3	19.8	33.4	17.6	25.0	21.7	39.1

[†] FCM Skylights can be positioned in portrait, landscape or even 'diamond-shape' orientation, except for FCM 2270 which is recommended only for portrait applications. Blinds are not available for FCM 2270.