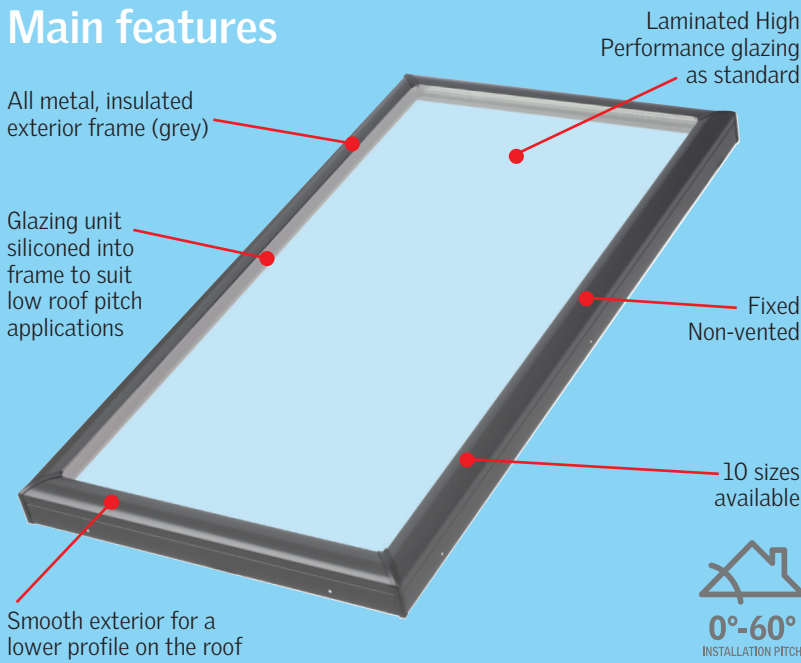


# FCM flat roof double glazed skylight

## Main features

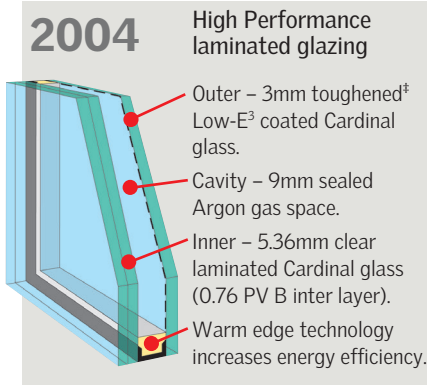


The brilliantly simple fixed, non-vented, FCM flat roof skylight incorporates the VELUX High Performance glazing unit and an all metal, insulated exterior frame.

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 anodized heavy-gauge aluminium frame withstands the extremes of the Australian climate.
- Versatile positioning: most sizes can be used in portrait, landscape or even "diamond shape" orientation.
- Ideal replacement solution for Acrylic Domes.

## High Performance glazing as standard



<sup>‡</sup> FCM 4646 outer pane is 3.9mm.

Benefits:	2004
• Radiant heat block	80%
• UV rays block	99%
• Noise reduction factor	32dB
• WERS rating	5 stars
• Double layer of Low-E <sup>3</sup> coating	✓
• 10 year warranty on insulated glass seal	✓

### Australian Standard AS1288

2004 laminated glass must be used for skylights installed 3m or more above floor level.



**10 YEAR WARRANTY**  
on skylights & glazing

## FCM technical performance

### Australian Standards

All 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<sup>^</sup> ✓

**AS1530.1 NON-COMBUSTIBILITY** ✓

**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<sup>^^</sup> ✓

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

\* CSIRO assessment report available on request. VELUX recommends consultation with relevant authority before work commences.

<sup>^</sup> Bushfire testing applicable to 2004 glazing variant skylight in roof pitch 0°-60°. Skylight only. Custom-made flashing required.

<sup>^^</sup> Skylight cannot be closer than 3mtrs unless the boundary is adjoining a road or public place.

### 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.

### Glazing performance

Glazing type	2004
<b>U-value (W/m<sup>2</sup>K)</b>	
Complete skylight	2.80
Glass only	1.93
<b>Solar Heat Gain Co-efficient</b>	
Complete skylight	0.26
Glass only	0.27
<b>Visible Light Transmittance</b>	
Complete skylight	0.61
<b>Luminous Efficacy (Ke = VT/SHGC)</b>	
Complete skylight	2.35

All figures generated by AFRC accredited simulators. Figures based on complete skylight: nominal size 1275mm (W) x 1275mm (H).

# FCM flat roof double glazed skylight



## 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° degrees. To prevent water 'ponding' on the glass a minimum pitch, e.g. 3° to 5°, is recommended.
- VELUX FCM does not come with a flashing kit but can be used with a variety of kerb flashings. Contact VELUX or a local flashing manufacturer for more information.



## Australian Standards

Australian Standard AS1288 stipulates laminated glass must be used in overhead glazing 3 meters or more above floor level (as standard for FCM).

## Custom-made flashing required

The VELUX FCM flat roof skylight requires custom-made flashing (not supplied). VELUX can assist with technical advice and drawings for this type of flashing.

### Dome replacement sizes

3 sizes can be used as direct replacements<sup>^</sup> for acrylic domes (FCM 1430 fits standard 400x800mm dome, FCM 2230 for 600x800mm dome and FCM 3434 for 900x900mm dome).

### Preparation guide for custom-made flashing



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

## FCM – frame and glazing dimensions

2004 High Performance double glazing as standard

Size code FCM	1430	2222	2230	2234	2246	2270 <sup>†</sup>	3030	3046	3434	4646
Inner glass dimension wxh – mm	368x775	572x572	572x775	572x876	572x1181	572x1790	775x775	775x1181	876x876	1181x1181
Throat dimension** wxh – mm	460x870	665x665	665x870	665x970	665x1275	665x1885	870x870	870x1275	970x970	1275x1275
Daylight area (M <sup>2</sup> )	0.29	0.33	0.44	0.50	0.68	1.02	0.60	0.92	0.77	1.39
2004 High Performance glazing sizes available	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2004 - weight in kg *	11.1	12.0	15.4	16.4	21.5	42.9	19.1	27.7	23.6	41.9

<sup>†</sup> FCM Skylights can be positioned in portrait, landscape or even 'diamond-shape' orientation, except for FCM 2270 which is recommended only for portrait applications.

<sup>^</sup> Custom-made collar adaptor (not supplied) required to fit.

Blinds are not available for FCM Skylights.

- Weights do not include flashing.