

FCM Fixed Skylight Flat Roof

Main features Heavy duty seal used Laminated double 12 sizes to suit low roof pitch glazing as standard available applications NEAT™ coating on outer pane Assessed for NT DTCM cyclone regions Smooth exterior for a lower profile on the roof

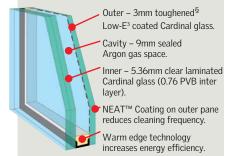
Construction

The brilliantly simple fixed, FCM skylight incorporates the VELUX High Performance double 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 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 Double Glazing



- Radiant heat block: Complete window approx 70% Glass only approx 70% approx 99%
- · UV Harmful rays block
- WERS rating
- Double layer of Low-E³ coating.
- · 10 year warranty on insulated glass seal.
- Reduced cleaning frequency.

Australian Standard AS1288

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

NEAT™ Photocatalytic Coating

FCM 4646 outer pane is 3.9mm.

• 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

10 YEAR WARRANTY

FCM technical performance

Code Mark is a voluntary certification scheme owned by the Commonwealth of Australia that provides legally binding evidence of compliance to the National Construction Code of Australia. One certificate replaces dozens of technical papers.



Australian Standards

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

AS4285 SKYLIGHT-Cyclonic and Non-Cyclonic Tests

NT DTCM Pressure Ratings**

See individual size ratings overleaf.

AS1288 OVERHEAD GLAZING Laminated inner pane

AS3959 BUSHFIRE Attack Level 40'

NCC BOUNDARY SEPARATION†

Class 1 and 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 NCC boundary separation requirements.

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

 Bushfire testing applicable in roof pitch 0°-60°. Skylight only.
- Custom-made flashing required.

 ^ Skylight cannot be closer than 3m unless the boundary is adjoining a road or public place. Consult NCC for futher details.
- Skylight must be installed in accordance with the engineering drawings, contact VELUX for more information.

VELUX Simulated Tests^{††}ASTM E822-2009.

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

FCM 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.

Technical Values

U-value (W/m²K)	
Complete skylight	
Class only	

2.9‡ Glass only 1.93

Solar Heat Gain Co-efficient

0.28 Complete skylight Glass only 0.28

Visible Light Transmittance

Complete skylight 0.61

Luminous Efficacy (Ke = VT/SHGC)

Complete skylight 2.18

Acoustic performance

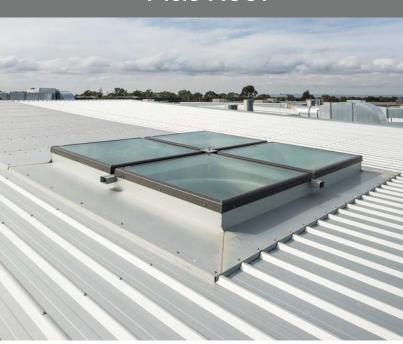
Complete skylight 29dB#

Figures generated by AFRC accredited simulators. Figures base on complete skylight: nominal size 1275mm (W) x 1275mm (H). ‡ See required installation method overleaf. # Based on Rw value tested to AS1276.1.

^{*} VELUX recommends FCM is installed with a slight pitch (e.g. 3°-5°) to help reduce condensation build-up and water ponding on the glass



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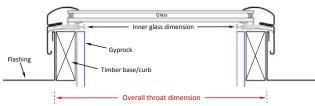
- · VELUX FCM Skylights can be used for flat and low sloping roofs. The low profile external covering and glazing seal prevents water infiltration even at 0°. To help reduce water 'ponding' on the glass a slight pitch (e.g. 3°-5°) is recommended.
- VELUX FCM does not come with a flashing kit but can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

Ideal dome replacement

Preparation guide for custom-made flashing



Note: If timber hob is greater than 38mm the Gyprock Timber on custom-made basellsfibCliQqGbt &xtbeadssring ar6therwise plasterboard/lining ‡Skylight munstntrestratietleehwijtertaroben habourglaGsporeck, as shown Skylight mutypieahinatellubion) timusehiase While platienisting, as shown (typical installation), to achieve 2.9 U-value rating.

Maximum allowable ultimate design wind NT DTCM Pressure Rating pressure for skylight support framing (kPa) 1430 2222 2230 2246 2270 3030 3434 3446 Size 2234 3046 3055 4646 Rating 10.00 9.70 9.70 9.41 9.70 8.60 7.27 7.27 7.27 6.53 6.67 5.00

FCM - frame and glazing dimensions 3446 4646 Product/size code ▶ 1430 2230 3046 3434 2222 2234 2246 2270 3030 3055 Throat dimension 870x870 870x1275 870x1505 970x970 970x1275 1275x1275 460x870 665x665 665x870 665x970 665x1275 665x1885 wxh - mm Inner glass dimension 775x775 775x1181 775x1410 876x876 876x1181 1181x1181 368x775 572x572 572x775 572x876 572x1181 572x1790 wxh - mm Daylight area (M2) 0.29 0.33 0.44 0.50 0.68 1.02 0.60 0.92 1.09 0.77 1.03 1.39 Weight in kg[‡] 100 11.0 176 250 299 217 272 39.1 140 153

- FCM Skylights can be positioned in portrait, landscape or even 'diamond-shape' orientation, except for FCM 2270 which is recommended only for portrait applications.
- Custom-made collar adaptor (not supplied) required to fit.
- Weight does not include flashing.