

GGL centre-pivot roof window

Main features

Available in 4 sizes

Rotates 180° for cleaning outer pane from within the room

Grey aluminium exterior cappings

Choice of blinds

High Performance glazing as standard

Lacquered pine frame and sash



Not recommended for out-of-reach situations

VELUX GGL is an openable, centre-pivoting roof window for within reach applications used to bring natural light and air into attic or loft rooms where ventilation is required.

Operation

The GGL is operated manually. The control bar at the top of the window is clicked open once for limited filtered air flow, whilst the window remains

closed and watertight. A second click of the control bar opens the sash.

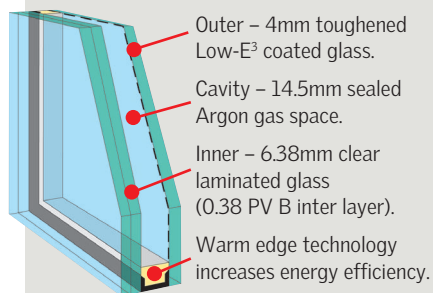
The sash is frictioned to stay in a pivot position to maximise ventilation. The sash can be locked in two positions, either slightly ajar or 180° in the fully rotated position, allowing the outside pane to be cleaned safely from inside the room.

ZIL Insect screen (optional extra) to be fitted to plaster reveal.

High Performance glazing as standard

3076

High Performance laminated glazing



Outer – 4mm toughened Low-E³ coated glass.

Cavity – 14.5mm sealed Argon gas space.

Inner – 6.38mm clear laminated glass (0.38 PV B inter layer).

Warm edge technology increases energy efficiency.

Benefits:

- Radiant heat block **approx 70%**
- UV rays block **95%**
- Noise reduction factor **35dB**
- Double layer of Low-E³ coating **✓**
- 10 year warranty on insulated glass seal **✓**

Australian Standard AS1288

Laminated glass must be used for roof windows installed 3m or more above floor level.



GGL technical performance

Australian Standards

All VELUX Roof Windows 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[^] **✓**

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^{^^} **✓**

VELUX Roof Windows 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.

[^] Bushfire testing applicable to 3076 glazing variant Roof Window in roof pitch 18°-75°. Roof Window only. Custom-made flashing required. Additional mesh protection may be required for opening apertures (consult local council).

[#] Roof Window to be in closed position.

^{^^} Roof Window cannot be closer than 3mtrs unless the boundary is adjoining a road or public place.

Construction

Frame and sash: Nordic Pine timber. Factory lacquered (3 coats) and treated with a base preservative to reduce mould and mildew.

Exterior capping: Grey aluminium.

Glazing performance

Glazing type 3076

U-value (W/m²K)

Complete Roof Window 1.40
Glass only 1.10

Solar Heat Gain Co-efficient

Complete Roof Window 0.28
Glass only 0.28

Visible Light Transmittance

Complete Roof Window 0.45

Luminous Efficacy (Ke = VT/SHGC)

Complete Roof Window 1.61

U-value and SHGC calculated according to EN 14351-1:2006 and A1:2010 (window size 1140 x 1400mm).

GGL centre-pivot roof window

Choice of manually operated blinds



Blockout blinds

- Provides blackout from light.
- Colour: White on internal side. Silver coating on external side.
- Materials: Light-tight polyester with heat resistant coating. Clear, anodized aluminium side channels and top cover.
- Reduce light by approx 100%. Reduce heat by approx 40%.

Insect screen available as extra.



Venetian blinds

- Controls the amount and direction of light.
- Colour: Egg-shell white on both sides.
- Materials: 35mm wide slimline aluminium blades. Clear, anodized aluminium side channels and top cover.
- Reduce light by up to 85%. Reduce heat by approx 57%.

Insect screen available as extra.

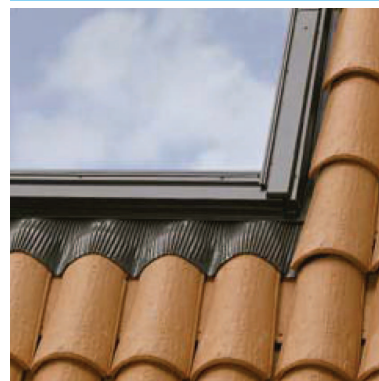
Now even easier to fit using VELUX **Pick&Click!** system.

GGL – frame and glazing dimensions

Product/size code ►	C02	C04	M04	M08
Overall frame size wxh – mm	550x780	550x980	780x980	780x1400
Internal glass size wxh – mm	373x530	373x730	603x730	603x1150
Daylight area (M²)	0.20	0.27	0.44	0.69
Ventilation area (M²)	0.24	0.33	0.51	0.79
3076 High Performance glazing as standard	✓	✓	✓	✓
3076 - weight in kg *	27.2	31.4	39.5	52.0

- Weight includes flashing.

Choice of flashing



EDW flashing for profiled roofing material

EDW flashing is used for Roof Windows installed into tile or corrugated (or similar) roofing. Concrete or terracotta tiles with standard profiles can be used. Custom orb profile metal roofing can be used.



EDL flashing for flat roofing material

EDL flashing is used for Roof Windows installed into slate or shingle roofs – typically 4-8mm thick. 'L' shaped sections are provided that act as soaker pieces on either side of the Roof Window. These soakers sit under each course of slate or shingle and interlock with the course above.

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 Roof Windows.

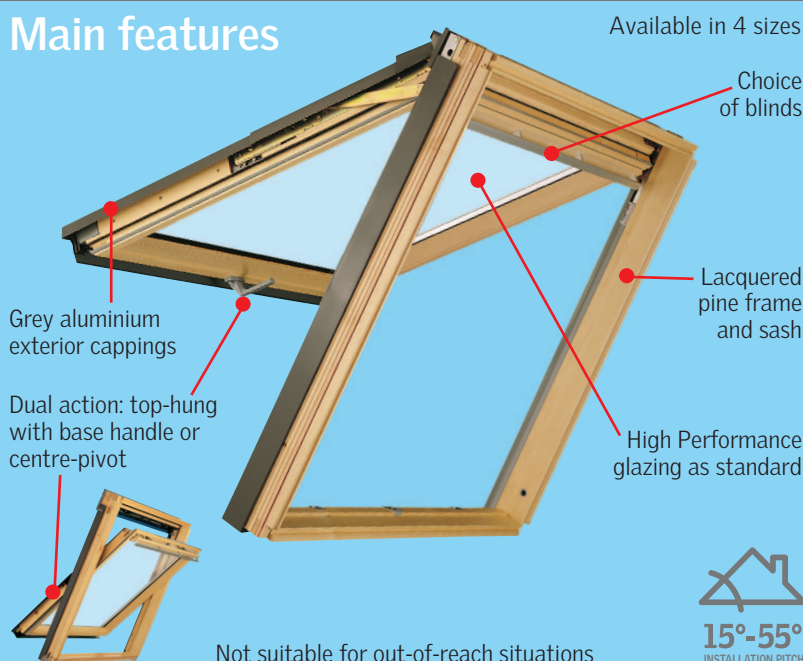
* For roofs below 15° pitch, roof windows need to be raised to 15° and custom flashed. VELUX can assist with technical advice and drawings. (NB: build-up not recommended in Bushfire areas.)



NB: When used in side-by-side/above-below combination, roof windows must be 100mm apart and utilise EKW/L combination flashing.

GHL dual action roof window

Main features



VELUX GHL is an openable centre-pivoting and top-hung "dual action" roof window for within reach applications. Used to bring natural light and air into attics or loft rooms where ventilation is required.

Operation

The GHL is operated manually. The control bar at the top of the window is clicked open once for limited filtered air flow, whilst the window remains closed and watertight. A second click of the control bar opens

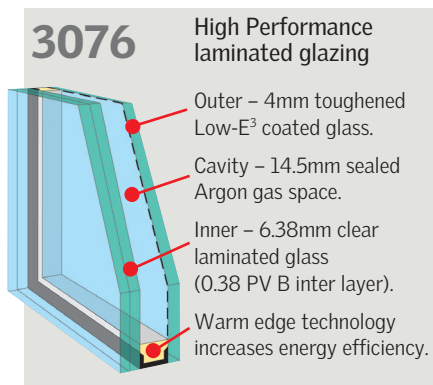
the central-pivoting sash.

The sash is frictioned to stay in a pivot position to maximise ventilation. The sash can be locked in two positions, either slightly ajar or 180° in the fully rotated position, allowing the outside pane to be cleaned safely from inside the room.

The GHL can also be opened as a top-hung awning window using the bottom handle for full opening or egress.

ZIL Insect screen (optional extra) to be fitted to plaster reveal.

High Performance glazing as standard



Benefits:	3076
Radiant heat block	approx 70%
UV rays block	95%
Noise reduction factor	35dB
Double layer of Low-E ³ coating	✓
10 year warranty on insulated glass seal	✓

Australian Standard AS1288

Laminated glass must be used for roof windows installed 3m or more above floor level.



GHL technical performance

Australian Standards

All VELUX Roof Windows 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[^] ✓

AS1530.1 NON-COMBUSTIBILITY ✓

BCA BOUNDARY SEPARATION[#]
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3 metres from a boundary wall^{^^} ✓

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[^] Bushfire testing applicable to 3076 glazing variant Roof Window in roof pitch 18°-55°. Roof Window only. Custom-made flashing required. Additional mesh protection may be required for opening apertures (consult local council).

[#] Roof Window to be in closed position.

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Construction

Frame and sash: Nordic Pine timber. Factory lacquered (3 coats) and treated with a base preservative to reduce mould and mildew.

Exterior capping: Grey aluminium.

Glazing performance

Glazing type	3076
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U-value (W/m ² K)	
Complete Roof Window	1.40
Glass only	1.10

Solar Heat Gain Co-efficient	
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Visible Light Transmittance	
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U-value and SHGC calculated according to EN 14351-1:2006 and A1:2010 (window size 1140mm x 1400mm).

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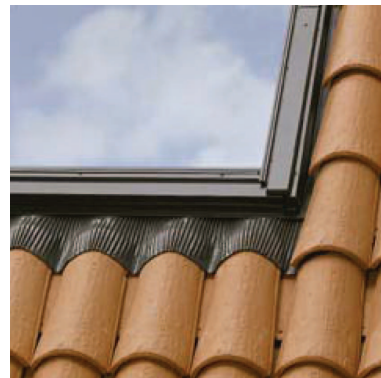
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Daylight area (M²)	0.27	0.44	0.56	0.69
Ventilation area (M²)	0.35	0.55	0.69	0.84
3076 High Performance glazing sizes available	✓	✓	✓	✓
3076 - weight in kg *	34.9	41.8	47.5	53.9

- Weight includes flashing.

Choice of flashing



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