VELUX GGL is an openable, centre-pivoting roof window for in-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.

**Laminated Double Glazing as standard**

2076

Laminated double glazing

- Outer – 4mm toughened Low-E coated glass.
- Cavity – 15mm 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-E 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 (Standard with GGL).

**Construction**

Frame and sash: Nordic Pine timber. Factory lacquered with top coat of white paint (NCS colour: S 0500-N).

Exterior capping: Grey aluminium.

**Glazing type**

<table>
<thead>
<tr>
<th>Glazing type</th>
<th>2076</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-value (W/m²K)</td>
<td>1.30</td>
</tr>
<tr>
<td>Solar Heat Gain Co-efficient</td>
<td>0.31</td>
</tr>
<tr>
<td>Visible Light Transmittance</td>
<td>0.64</td>
</tr>
<tr>
<td>Luminous Efficacy (Ke = VT/SHGC)</td>
<td>2.06</td>
</tr>
</tbody>
</table>

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‡ Figures calculated according to EN 14351-1:2006 and A2:2016 (window size 1140 x 1400mm).
Choice of manually operated blinds

**Blockout blinds**
- Provides blockout 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%.
- Easy to fit using VELUX Pick & Click! system.

**Honeycomb blinds**
- Adds a decorative effect.
- Colour: White on both sides.
- Materials: Double layered pleats (polyester) form a ‘honeycomb’ structure. Inner faces of honeycomb structure have aluminium coating.
- Reduce light by up to 95%.
- Reduce heat by approx 60%.
- Easy to fit using VELUX Pick & Click! system.

Blinds sold separately.

**NB:** NEW VELUX blinds do not fit GGL/GHL/GPL windows purchased prior to June 2015.

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**GGL – frame and glazing dimensions**

<table>
<thead>
<tr>
<th>New Product/size code (Old code pre June 2015)</th>
<th>CK02 (CO2)</th>
<th>CK04 (CO4)</th>
<th>MK04 (MO4)</th>
<th>MK08 (MO8)</th>
<th>SK06 (SO6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall frame size wxh – mm</td>
<td>550x780</td>
<td>550x980</td>
<td>780x980</td>
<td>780x1400</td>
<td>1140x1180</td>
</tr>
<tr>
<td>Internal glass size wxh – mm</td>
<td>371x583</td>
<td>371x783</td>
<td>601x783</td>
<td>601x1203</td>
<td>961x983</td>
</tr>
<tr>
<td>Daylight area (m²)</td>
<td>0.22</td>
<td>0.29</td>
<td>0.47</td>
<td>0.72</td>
<td>0.95</td>
</tr>
<tr>
<td>Ventilation area (m²)</td>
<td>0.26</td>
<td>0.34</td>
<td>0.53</td>
<td>0.81</td>
<td>1.03</td>
</tr>
<tr>
<td>2076 laminated glazing as standard</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Weight in kg*</td>
<td>23.5</td>
<td>27.4</td>
<td>34.5</td>
<td>46.0</td>
<td>53.8</td>
</tr>
</tbody>
</table>

*NB:* 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 skylights.

*Weight includes flashing.

**Choice of flashing**

**EDW flashing**
- EDW flashing is used for Roof Windows installed into tiled roofs and low profiled metal roofs (such as corrugated iron and custom orb – not suitable for metal profiles such as Klip-Lok, Trimdek).

**EDL flashing**
- 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.

**EKW combination flashing**
- Designed for installing multiple Roof Windows side-by-side or above-below. Roof Windows must be spaced 100mm apart. EKW suitable for same roofs as EDW flashing.

**NB:** 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).