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.

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

**Laminated double glazing as standard**

Laminated double glazing

<table>
<thead>
<tr>
<th>Glazing type</th>
<th>3076</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-value (W/m²K)</td>
<td>1.20</td>
</tr>
<tr>
<td>Solar Heat Gain Co-efficient</td>
<td>0.30</td>
</tr>
<tr>
<td>Visible Light Transmittance</td>
<td>0.62</td>
</tr>
<tr>
<td>Luminous Efficacy (Ke = VT/SHGC)</td>
<td>2.07</td>
</tr>
</tbody>
</table>

**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

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

**Construction**

Frame and sash: Nordic Pine timber. Factory lacquered (2 coats) and treated with a base preservative to reduce mould and mildew.

**Exterior capping:** Grey aluminium.

**Australian Standard AS1288**

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

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**Technical data**

**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°

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. Roof Window to be in closed position.*

^ Bushfire testing applicable to 3076 glazing variant

**Frame and sash**

Nordic Pine timber. Factory lacquered (2 coats) and treated with a base preservative to reduce mould and mildew.

**Exterior capping**

Grey aluminium.

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**Choice of blinds**

Laminated as standard

Lacquered pine frame and sash

Not recommended for out-of-reach situations

**Construction**

Frame and sash: Nordic Pine timber. Factory lacquered (2 coats) and treated with a base preservative to reduce mould and mildew.

**Exterior capping:** Grey aluminium.

**U-value (W/m²K)**

<table>
<thead>
<tr>
<th>Glazing type</th>
<th>3076</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete Roof Window</td>
<td>1.20</td>
</tr>
<tr>
<td>Glass only</td>
<td>1.00</td>
</tr>
<tr>
<td>Solar Heat Gain Co-efficient</td>
<td>0.30</td>
</tr>
<tr>
<td>Visible Light Transmittance</td>
<td>0.62</td>
</tr>
</tbody>
</table>

Luminous Efficacy (Ke = VT/SHGC)

Complete Roof Window 2.07
Choice of manually operated blinds

- Provides blockout 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%.

Blockout blinds

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%.

EDW flashing is used for Roof Windows installed into tiled roofs and low profiled metal roofs (such as corrugated iron and custom orb).

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.

GGL – frame and glazing dimensions

<table>
<thead>
<tr>
<th>New Product/size code (Old code pre June 2015)</th>
<th>CK02</th>
<th>CK04</th>
<th>MK04</th>
<th>MK08</th>
<th>SK06</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>3076 laminated glazing as standard</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Weight in kg</td>
<td>23.6</td>
<td>27.6</td>
<td>34.9</td>
<td>45.7</td>
<td>53.9</td>
</tr>
</tbody>
</table>

Now even easier to fit using VELUX [Pick & Click™] system.

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

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 SKW/L combination flashing.