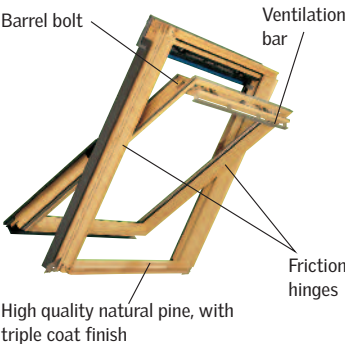


# Centre-pivot pine finish roof window – GGL



Centre-pivot roof windows with pine finish.



The Pine Centre-pivot window (GGL) is a classic and versatile design manufactured in high quality natural pine, finished with triple coat finish. It is suitable for installation in roof pitches between 15° and 90°. For easy operation it is recommended to place the top frame of the window 1.85-2.20m above the floor.

VELUX recommend solar or electrically operated windows with laminated inner pane for windows installed above 2.20m.

### Features –

- Ventilation bar with dust and insect filter
- Friction springs
- Sash rotates 180° from inside
- Barrel bolt

### Benefits –

- Allows fresh air to enter the room while the window is still securely closed
- Allows easy operation of window
- Allows easy and convenient cleaning
- Allows the window to be locked in two positions
  - At 180° for secure cleaning of the exterior pane internally
  - At 5° to allow extra ventilation

The window is operated manually using the full width control bar on the ventilation flap along the top of the sash.

To watch an illustration of how the window operates [click here](#).

The pane should be cleaned with a soft, clean, lint-free cloth or non-abrasive sponge. The rest of the window can be cleaned with ordinary household cleaners. The filter can be removed and either washed or replaced.

For further advice on maintenance please [click here](#).

- 10 year VELUX guarantee on windows and flashings
- 3 year guarantee on blinds, shutters and awnings

[Click here](#) for further information regarding the VELUX guarantee.

### Interior variants:

- White paint finish (GGL).

### Cladding variants:

- NCS standard colour: S 7500-N nearest RAL standard colour: 7043.
- Also available: titanium zinc, copper or other cladding types and colours.

### VELUX offer several glazing options

- (--59) Toughened outer pane.
- (--73) Toughened outer pane with clear and clean coating and laminated inner pane for additional safety.
- (--60) Improved U-value and greater noise reduction. Toughened outer pane with clear and clean coating and laminated inner pane for additional safety.
- (--65) Triple glazing, lowest U-value and noise reduction. Toughened outer pane with clearview coating to minimise the formation of condensation on the external pane, 3mm middle pane and laminated inner pane for additional safety.
- (--41Q) Laminated inner pane, toughened outer pane. Provides a Burglary Resistance of Class P5A.

For further information regarding VELUX glazing options [click here](#).

### Installation products recommended by VELUX:

#### Flashings for

- Single installation (ED\_)
- Twin installation (EB\_)
- Combi installation (EK\_)

[Click here](#) for more information on flashings.

#### Installation products

- Insulation Collar (BDX)
- Underfelt Collar (BFX) includes transverse drainage gutter
- Vapour Barrier (BBX)

[Click here](#) for more information on installation products.

#### Control options:

- Rod (ZCT 200)
- Remote control – Electrical conversion kit (KMX 100) or Solar conversion kit (KSX 100) can be fitted to upgrade manual windows



### Blinds, awnings and shutters:

#### Interior sunscreening\*

- Blackout blind – Manual (DKL) or Solar (DSL)
- Roller blind – Manual (RFL) or Solar (RSL)
- Flying Pleated blind – Manual (FHL)
- Venetian blind – Manual (PAL)
- Duo Blackout blind – Manual (DFD)

\*Manual and Solar blinds can be used on manual windows, electric blinds are for use on electric windows only

#### Exterior suncreening†

- Awning blind – Manual (MAL)
- Roller shutter – Manual (SCL)

†Solar and electric options also available

#### Additional accessories

- Insect screen – Manual (ZIL)

[Click here](#) for more information on blinds.



### Application

### Operation

### Maintenance

### Guarantee

### Variants

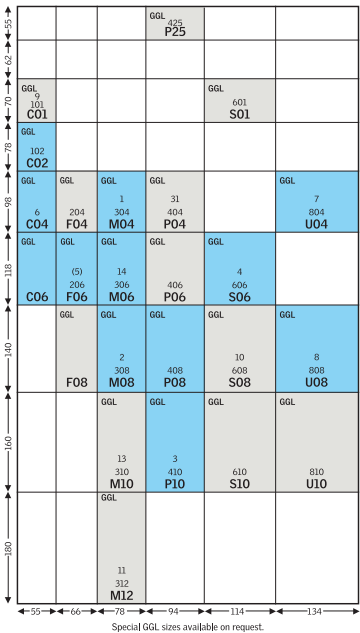
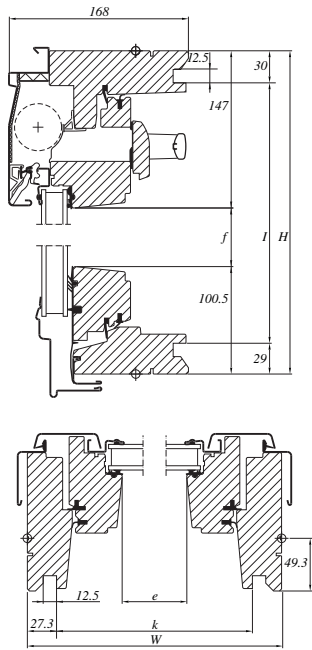
Technical data – GGL

Measurements  
(mm)

| Size | Exterior frame | Visible glass | Lining rebate |
|------|----------------|---------------|---------------|
|      | W x H          | e x f         | k x l         |
| C01  | 550 x 698      | 373 x 450     | 495 x 639     |
| C02  | 550 x 778      | 373 x 530     | 495 x 719     |
| C04  | 550 x 978      | 373 x 730     | 495 x 919     |
| C06  | 550 x 1178     | 373 x 930     | 495 x 1119    |
| F04  | 660 x 978      | 483 x 730     | 605 x 919     |
| F06  | 660 x 1178     | 483 x 930     | 605 x 1119    |
| F08  | 660 x 1398     | 483 x 1150    | 605 x 1339    |
| M04  | 780 x 978      | 603 x 730     | 725 x 919     |
| M06  | 780 x 1178     | 603 x 930     | 725 x 1119    |
| M08  | 780 x 1398     | 603 x 1150    | 725 x 1339    |
| M10  | 780 x 1600     | 603 x 1352    | 725 x 1741    |
| M12  | 780 x 1800     | 603 x 1552    | 725 x 1741    |

| Size | Exterior frame | Visible glass | Lining rebate |
|------|----------------|---------------|---------------|
|      | W x H          | e x f         | k x l         |
| P25  | 942 x 550      | 765 x 302     | 887 x 491     |
| P04  | 942 x 978      | 765 x 730     | 887 x 919     |
| P06  | 942 x 1178     | 765 x 930     | 887x 1119     |
| P08  | 942 x 1398     | 765 x 1150    | 887 x 1339    |
| P10  | 942 x 1600     | 765 x 1352    | 887 x 1541    |
| S01  | 1140 x 698     | 963 x 450     | 1085 x 639    |
| S06  | 1140 x 1178    | 963 x 930     | 1085 x 1119   |
| S08  | 1140 x 1398    | 963 x 1150    | 1085 x 1339   |
| S10  | 1140 x 1600    | 963 x 1352    | 1085 x 1541   |
| U04  | 1340 x 978     | 1163 x 730    | 1285 x 919    |
| U08  | 1340 x 1398    | 1163 x 1150   | 1285 x 1339   |
| U10  | 1340 x 1600    | 1163 x 1352   | 1285 x 1541   |

Cross-section/  
measurents (mm)



Sizes (cm)

VELUX GB/Ireland  
standard product  
programme

Sizes available  
on request

Technical data

|                                              | Size | C01  | C02  | C04  | C06  | F04  | F06  | F08  | M04  | M06  | M08  | M10  | M12  |
|----------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ventilation flap – free area [10³mm²]        |      | 2.8  | 2.8  | 2.8  | 2.8  | 3.5  | 3.5  | 3.5  | 4.3  | 4.3  | 4.3  | 4.3  | 4.3  |
| Ventilation flap – equivalent area [10³mm²]* |      | 2.6  | 2.6  | 2.6  | 2.6  | 3.1  | 3.1  | 3.1  | 3.7  | 3.7  | 3.7  | 3.7  | 3.7  |
| Ventilation – open window manual [m²]        |      | 0.21 | 0.24 | 0.33 | 0.42 | 0.42 | 0.53 | 0.65 | 0.51 | 0.64 | 0.79 | 0.92 | 1.02 |
| Ventilation – open window INTEGRA [m²]       |      |      | 0.16 | 0.17 | 0.17 | 0.20 | 0.20 | 0.21 | 0.23 | 0.24 | 0.25 | 0.25 |      |
| Effective daylight area [m²]                 |      | 0.17 | 0.20 | 0.27 | 0.35 | 0.35 | 0.45 | 0.56 | 0.44 | 0.56 | 0.69 | 0.82 | 0.94 |

\*Measured to EN 13141-1

|                                              | Size | P04  | P06  | P08  | P10  | P25  | S01  | S06  | S08  | S10  | U04  | U08  | U10  |
|----------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ventilation flap – free area [10³mm²]        |      | 5.4  | 5.4  | 5.4  | 5.4  | 5.4  | 6.8  | 6.8  | 6.8  | 6.8  | 8.1  | 8.1  | 8.1  |
| Ventilation flap – equivalent area [10³mm²]* |      | 4.6  | 4.6  | 4.6  | 4.6  | 4.6  | 5.6  | 5.6  | 5.6  | 5.6  | 6.6  | 6.6  | 6.6  |
| Ventilation – open window manual [m²]        |      | 0.63 | 0.80 | 0.98 | 1.15 | 0.28 | 0.49 | 0.99 | 1.22 | 1.42 | 0.94 | 1.45 | 1.70 |
| Ventilation – open window INTEGRA [m²]       |      | 0.28 | 0.28 | 0.29 | 0.30 |      |      | 0.34 | 0.35 | 0.35 | 0.39 | 0.41 | 0.41 |
| Effective daylight area [m²]                 |      | 0.56 | 0.71 | 0.88 | 1.03 | 0.23 | 0.43 | 0.90 | 1.11 | 1.30 | 0.85 | 1.34 | 1.57 |

| Pane variant                                  | --59    | --60    | --65    | --73    | --41Q   | EN/ISO Standard |
|-----------------------------------------------|---------|---------|---------|---------|---------|-----------------|
| Thermal transmittance, U <sub>w</sub> [W/m²K] | 1.4     | 1.3     | 1.0     | 1.4     | 1.6     | EN ISO 12567-2  |
| Sound insulation, R <sub>w</sub> [dB]         | 32      | 37      | 35      | 35      | 35      | EN ISO 717-1    |
| Air permeability                              | Class 3 | Class 3 | Class 3 | Class 3 | Class 3 | EN 1026         |
| Light transmittance, τ <sub>v</sub>           | 0.79    | 0.62    | 0.67    | 0.77    | 0.75    | EN 410          |
| Total solar energy transmittance, g           | 0.60    | 0.29    | 0.46    | 0.56    | 0.54    | EN 410          |