

## Product information

# Roof balcony CABRIO® GDL



### Product description

- High quality natural pinewood coated with impregnation and layers of water-based acrylic clear lacquer or white paint
- Top-hung upper section with bottom handle for convenient operation
- Bottom-hung lower section with handles on top sash - opens outwards
- Banister railings and balusters
- Triple glazing
- Ventilation flap and integrated dust and insect filter
- Maintenance-free exterior covers

### Roof pitch

- Can be installed in roof pitches between 35° and 53°

### Materials

- Laminated pinewood
- Glass, toughened outer glass / laminated inner glass
- Lacquered aluminium, copper or zinc
- VELUX ThermoTechnology™ insulation

### Downloads

For installation instructions, CAD drawings, 3D BIM objects, SketchUp objects etc, please visit [www.velux.bg](http://www.velux.bg).

### Certifications



The VELUX product factories guarantee quality systems implementation process and environmental management systems through appropriate accreditations ISO 9001 and ISO 14001

**EUTR** In compliance with the EU Timber Regulation (EUTR), EU regulation 995/2010

**REACH** We are aware of the REACH regulation and acknowledge the obligations. No products are obliged to be registered in accordance to REACH and none of our products contain any Substances of Very High Concern.



### Technical values

	--66	--66L
<b>U<sub>w</sub> [W/m<sup>2</sup>K]</b>	1.2	1.2
<b>U<sub>g</sub> [W/m<sup>2</sup>K]</b>	0.7	0.6
<b>R<sub>w</sub> [dB]</b>	37	34
<b>g [ ]</b>	0.50	0.50
<b>τ<sub>v</sub> [ ]</b>	0.69	0.70
<b>τ<sub>uv</sub> [ ]</b>	0.05	0.05
<b>Air permeability [class]</b>	3	3

Thermal improvements such as lower U-value (U<sub>w</sub>) and lower linear heat loss coefficient (φ) can be obtained with frame insulation collar and/or recessed installation.

\* R<sub>w</sub> value 37 dB applies to GDL PK19 only. For information about R<sub>w</sub> value for SK19, please contact [www.velux.bg](http://www.velux.bg).

### Glazing structure

	--66	--66L
<b>Inner glass pane</b>	2 x 3 mm laminated float with low ε coating	2 x 2 mm laminated float with low ε coating
<b>Middle glass pane</b>	3 mm heat strengthened float with low ε coating	2.2 mm heat strengthened float with low ε coating
<b>Outer glass pane</b>	4 mm toughened with coatings	3 mm toughened with coatings
<b>Cavity</b>	2 x 12 mm	2 x 14 mm
<b>Glass panes</b>	Triple	Triple
<b>Gas filling</b>	Argon	Argon

**Glazing features**

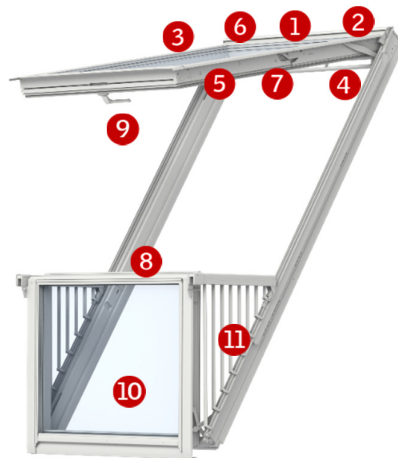
		--66
	<b>Heat insulation</b> Low energy glazing provides reduced heat loss through the window and enhanced indoor comfort.	●●●
	<b>Solar gain</b> In the wintertime, the heat from the sun entering through the windows is a usable solar gain.	●●
	<b>Solar protection</b> In warm climates and in rooms with large window areas, a sun protective coating provides a better indoor climate during summer periods. Alternatively, exterior sunscreening can be installed.	
	<b>Sound insulation</b> A combination of laminated glass and optimal glass thickness provides better sound insulation. Frame/sash construction and gaskets are equally important.	●●●
	<b>Security</b> Thicker laminated inner glass pane designed to increase resistance to manual attack (burglary).	●
	<b>Energy balance</b> The energy balance represents the ability of the roof window to utilise the passive solar gain and keep in the heat during winter and its ability to protect against the risk of overheating during summer. Sunscreening products can further improve indoor summer comfort.	✓
	<b>Safety</b> Laminated inner glass is designed to hold the fragments together if the glass breaks. We recommend that you consider using glass units with laminated glass on the inside for windows placed above areas where people sleep, play or work.	✓
	<b>Outside strength</b> Toughened outer glass pane makes your glazing more resistant to hail, heavy wind and snow loads.	✓
	<b>Delayed fading of materials</b> Inner laminated glass protects materials behind the glass against UV radiation and therefore delays fading of the materials.	✓
	<b>Rain noise reduction</b> The combination of laminated glass and extra thick glass helps provide a significant, audible reduction of rainfall sound. Frame/sash construction and gaskets are equally important.	
	<b>Easy-to-clean</b> The easy-to-clean coating minimises the cleaning frequency of the outer glass pane and gives you a clearer view in case of rain.	✓
	<b>Anti-dew</b> The anti-dew coating significantly reduces the days with dew on the outer glass pane and thus gives you a clear view.	✓

● Good   ●● Better   ●●● Best   ✓ Feature included in glazing variant

Technical values, ventilation through ventilation flap

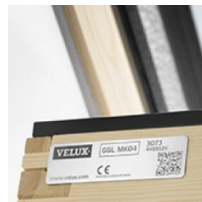
Property	Windows with triple glazing	
	Width	
	PK--	SK--
Air flow characteristics [l/s]	1.7	2.1
Air flow exponent [-]	0.63	0.63
Ventilation capacity at 4 Pa [l/s]	4.1	4.9
Ventilation capacity at 8 Pa [l/s]	6.3	7.6
Ventilation capacity at 10 Pa [l/s]	7.3	8.2
Ventilation capacity at 20 Pa [l/s]	8.1	9.8
Equivalent area through ventilation flap [mm <sup>2</sup> ]	2900	3500
Geometrical free area [mm <sup>2</sup> ]	6100	7200

Visible features



**1 Lock casing**

- electro-galvanised steel
- colour: "silver"



**2 Data plate**

- window type, size and variant code
- CE marking
- production code
- QR code



**3 Click-on covers**

- lacquered aluminium



**4 Control bar**

- anodised aluminium



**ThermoTechnology™**

**5 Excellent insulation**

- expanded polystyrene
- colour: grey charcoal



**6 Barrel bolt**

- plastic
- colour: grey
- steel
- colour: "silver"



**7 Hinges with friction**

- electro-galvanised steel
- colour: "silver"



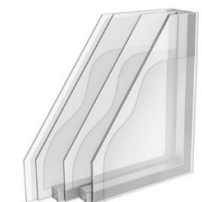
**8 Barrel bolt bushings**

- plastic
- colour: grey



**9 Bottom handle**

- anodised aluminium



**10 Triple glazing**

- toughened outer glass
- laminated inner glass for personal safety



**11 Railings and balusters**

- plastic and painted aluminium
- colour: black
- passivated steel hinges
- colour: "silver"

## Cleaning and maintenance



To clean the outer pane from the inside, rotate sash and secure in cleaning position with barrel bolt. Open the upper section to clean the outer pane of the lower element.



VELUX repair and maintenance kits are available.

## Exterior covers

Material	NCS standard colour	RAL nearest standard colour
Lacquered aluminium (-0--) grey	S 7500-N	7043
Lacquered aluminium (-5--) black	S 9000-N	9005
Copper (-1--)	-	-
Titanium zinc (-3--)	-	-

Special colour requests, please contact [www.velux.bg](http://www.velux.bg).

## Interior finish

Clear lacquer	Impregnation and layers of water-based acrylic lacquer
White paint	Impregnation and layers of water-based acrylic lacquer and paint, NCS standard colour: S 0500-N, nearest RAL standard colour: 9003.

Special colour requests, please contact [www.velux.bg](http://www.velux.bg).

## Flashings and installation products



### Flashings:

- ED- -K19 for single installation
- EK- -K10 / ET- -K34 --00 / ET- -K34 --00- for combi installation

Available for standard installation

### Installation products:

- Installation set BDX 2000 (incl BFX) + extension pieces BDX W34 (incl BFX)
- Underfelt collar BFX 1000 incl transverse drainage gutter
- Vapour barrier collar BBX 0000 + extension pieces BBX WK34
- Linings LS- (incl BBX) + additional lining parts LL- (incl BBX)
- Kit for lining LSG 1000 (incl BBX)

## Note

We reserve the right to make technical changes.

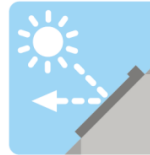
For more information on roof balcony CABRIO® GDL and other VELUX products, please visit [www.velux.bg](http://www.velux.bg).

## Blinds, awnings and shutters



### Interior sun screening

- Blackout blind
- Roller blind
- Pleated blind
- Flying pleated blind
- Double pleated energy blind
- Venetian blind
- Duo blackout blind



### Exterior sun screening

- Awning blind
- Roller shutter



### Additional accessories

- Insect roller screen

- Available in manual and mains/solar powered versions
- Available in manual and mains powered versions
- Available in manual version

The mains and solar powered versions are part of the VELUX INTEGRA® product range.