**VELUX®**

**Product information**

# Rescue opening window GTL

## Product description

- High quality natural pinewood coated with impregnation and layers of water-based acrylic clear lacquer or white paint

- The top-hung sash can remain open in any position up to an angle of 45°. In an emergency situation, the sash can be opened to an angle of 67° by pushing it further up.

- Bottom handle for convenient operation

- Ventilation flap and integrated dust and insect filter

- Maintenance-free exterior covers

- For easy cleaning of the outer glass pane, the roof window can be operated as a centre-pivot roof window

## Roof pitch

- Can be installed in roof pitches between 15° and 65°

## Materials

- Laminated pinewood
- Glass
- Lacquered aluminium, copper or zinc
- VELUX ThermoTechnology™ insulation

## Downloads

For installation instructions and CAD drawings, please visit www.velux.bg.

## Certifications

**10 YEARS GUARANTEE**

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.

## Available sizes and daylight area

| | 472 mm | 550 mm | 660 mm | 780 mm | 942 mm | 1140 mm | 1340 mm |
|---|---|---|---|---|---|---|---|
| 778 mm | | | | | | | |
| 978 mm | | | | | | | |
| 1178 mm | | | | | | | |
| 1398 mm | | | | **GTL MK08**<br><br>(0.72) | | **GTL SK08**<br><br>(1.16) | |
| 1600 mm | | | | | | | |

( ) = Effective daylight area, m²

## Lining measurements

| Size | Width (mm) |
|---|---|
| MK-- | 725 |
| SK-- | 1085 |

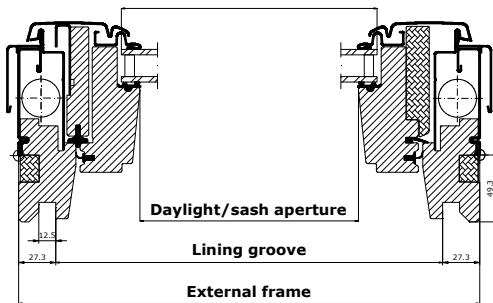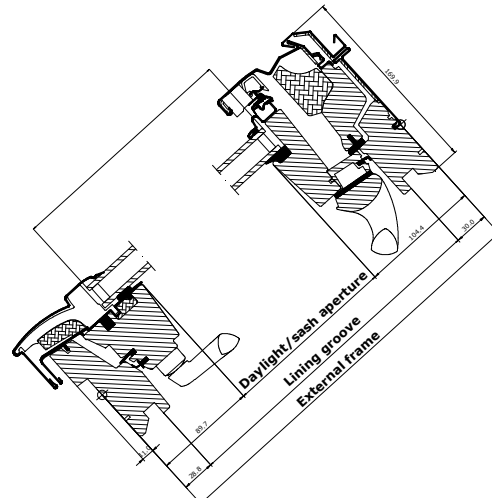| Size | Height (mm) |
|---|---|
| --08 | 1339 |



This top-hung roof window with bottom operation can be used as a rescue opening. In an emergency situation, the sash can be opened to an angle of 67°.

For daily use, the top-hung roof window provides an unobstructed panoramic view.

## Width



Daylight/sash aperture
12.5
27.3
69
Lining groove
27.3
External frame

## Height



Daylight/sash aperture
Lining groove
External frame

## Technical values

| | --50 | --70 | --60 | --66 | --62 |
|---|---|---|---|---|---|
| $U_w$ [W/m$^2$K] | 1.3 | 1.3 | 1.2 | 1.0 | 0.83 |
| $U_g$ [W/m$^2$K] | 1.1 | 1.1 | 1.0 | 0.7 | 0.5 |
| $R_w$ [dB] | 32 | 35 | 37 | 37 | 42 |
| g [ ] | 0.66 | 0.64 | 0.30 | 0.50 | 0.50 |
| $\tau_v$ [ ] | 0.80 | 0.79 | 0.61 | 0.69 | 0.65 |
| $\tau_{uv}$ [ ] | 0.32 | 0.05 | 0.05 | 0.05 | 0.05 |
| Air permeability [class] | 4 | 4 | 4 | 4 | 4 |

Thermal improvements such as lower U-value (U$_w$) and lower linear heat loss coefficient (φ) can, for some variants, be obtained with frame insulation collar and/or recessed installation.

## Glazing structure

| | --50 | --70 | --60 | --66 | --62 |
|---|---|---|---|---|---|
| Inner glass pane | 4 mm float with low ε coating | 2 x 3 mm laminated float with low ε coating | 2 x 3 mm laminated float with low ε coating | 2 x 3 mm laminated float with low ε coating | 2 x 3 mm laminated float with low ε coating |
| Middle glass pane | - | - | - | 3 mm heat strengthened float with low ε coating | 3 mm heat strengthened float with low ε coating |
| Outer glass pane | 4 mm toughened | 4 mm toughened | 6 mm toughened with coatings | 4 mm toughened with coatings | 8 mm toughened with coating |
| Cavity | 16 mm | 15 mm | 15 mm | 2 x 12 mm | 2 x 10 mm |
| Glass panes | Double | Double | Double | Triple | Triple |
| Gas filling | Argon | Argon | Argon | Argon | Krypton |

## Glazing features

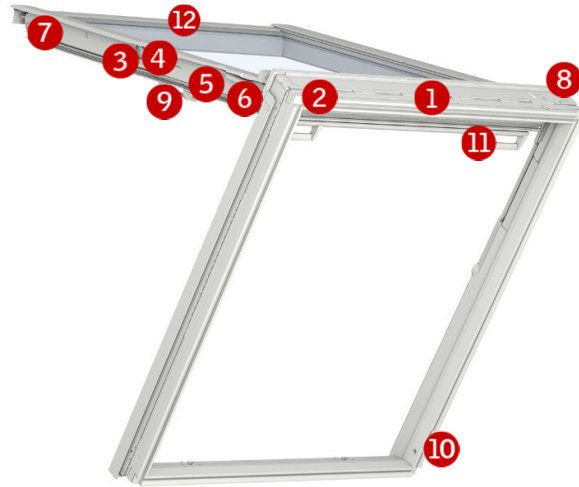| | | --50 | --70 | --60 | --66 | --62 |
|---|---|---|---|---|---|---|
| | **Heat insulation**<br>Low energy glazing provides reduced heat loss through the window and enhanced indoor comfort. | • | • | •• | ••• | ••• |
| | **Solar gain**<br>In the wintertime, the heat from the sun entering through the windows is a usable solar gain. | ••• | ••• | • | •• | •• |
| | **Solar protection**<br>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. | | | ••• | | |
| | **Sound insulation**<br>A combination of laminated glass and optimal glass thickness provides better sound insulation.<br>Frame/sash construction and gaskets are equally important. | • | •• | ••• | ••• | ••• |
| | **Security**<br>Thicker laminated inner glass pane designed to increase resistance to manual attack (burglary). | | • | • | • | • |
| | **Energy balance**<br>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. | ✓ | ✓ | ✓ | ✓ | ✓ |
| | **Safety**<br>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. | | ✓ | ✓ | ✓ | ✓ |
| | **Outside strength**<br>Toughened outer glass pane makes your glazing more resistant to hail, heavy wind and snow loads. | ✓ | ✓ | ✓ | ✓ | ✓ |
| | **Delayed fading of materials**<br>Inner laminated glass protects materials behind the glass against UV radiation and therefore delays fading of the materials. | | ✓ | ✓ | ✓ | ✓ |
| | **Rain noise reduction**<br>The combination of laminated glass and extra thick glass helps provide a significant, audible reduction of rainfall sound.<br>Frame/sash construction and gaskets are equally important. | | | ✓ | | ✓ |
| | **Easy-to-clean**<br>The easy-to-clean coating minimises the cleaning frequency of the outer glass pane and gives you a clearer view in case of rain. | | | ✓ | ✓ | |
| | **Anti-dew**<br>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 double glazing | | | Windows with triple glazing | |
|---|---|---|---|---|---|
| | Width | | | | |
| | MK-- | SK-- | | MK-- | SK-- |
| **Air flow characteristics [l/s]** | tbd | tbd | | tbd | tbd |
| **Air flow exponent [-]** | tbd | tbd | | tbd | tbd |
| **Ventilation capacity at 4 Pa [l/s]** | tbd | tbd | | tbd | tbd |
| **Ventilation capacity at 8 Pa [l/s]** | tbd | tbd | | tbd | tbd |
| **Ventilation capacity at 10 Pa [l/s]** | tbd | tbd | | tbd | tbd |
| **Ventilation capacity at 20 Pa [l/s]** | tbd | tbd | | tbd | tbd |
| **Equivalent area through ventilation flap [mm2]** | tbd | tbd | | tbd | tbd |
| **Geometrical free area [mm2]** | tbd | tbd | | tbd | tbd |

tbd: to be determined

**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** **Hinges with friction**
- electro-galvanised steel
- colour: "silver"

**5** **Lifting device**
- steel with magnelis coating

**6** **Emergency lifting device**
- gas spring
- colour: black

**7** **Excellent insulation**
- expanded polystyrene
- colour: grey charcoal

ThermoTechnology™

**8** **Barrel bolts**
- plastic
- colour: grey
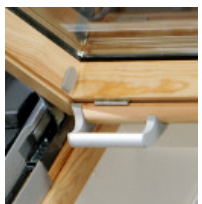- steel
- colour: "silver"

**9** **Handles on side sash**
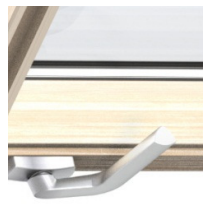- anodised aluminium

**10** **Barrel bolt bushings**
- plastic
- colour: grey

**11** **Control bars**
- anodised aluminium

**12** **Bottom handle**
- anodised aluminium

## Cleaning and maintenance



To clean the outer pane from the inside, rotate sash and secure in cleaning position with barrel bolt.



VELUX repair and maintenance kits are available.

## Exterior covers

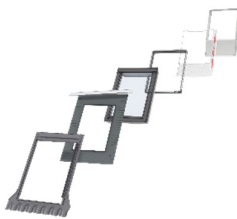| Material | NCS<br>standard colour | RAL<br>nearest standard colour |
|---|---|---|
| Lacquered aluminium<br>(-0--) grey | S 7500-N | 7043 |
| Lacquered aluminium<br>(-5--) black | S 9000-N | 9005 |
| Copper<br>(-1--) | - | - |
| Titanium zinc<br>(-3--) | - | - |

Special colour requests, please contact www.velux.bg.

## Interior finish

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

Special colour requests, please contact 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.

## Flashings and installation products



Flashings:
• Single installation ED-
• Twin installation EB-
• Combi installation EK-
Available for standard and recessed installation

Installation products:
• Installation set BDX 2000 (incl BFX)
• Underfelt collar BFX 1000 incl transverse drainage gutter
• Vapour barrier collar BBX 0000
• Linings LS- (incl BBX)
• Kit for lining LSG 1000 (incl BBX)

## Note

We reserve the right to make technical changes.

For more information on rescue opening window GTL and other VELUX products, please visit www.velux.bg.