VELUX®

Product information
VELUX Top-hung polyurethane roof window GPU

Product description

- High quality moulded polyurethane with white lacquer finish
- The sash can remain open in any position up to an angle of 45°
- Bottom handle for convenient operation
- Ventilation flap and integrated dust and insect filter
- Maintenance-free interior surface
- Maintenance-free exterior covers

Roof pitch

- Can be installed in roof pitches between 15° and 55°
- Installation in roof pitches from 55° up to 75° is possible, but specially manufactured springs must be ordered

Materials

- Polyurethane around a timber core
- Glass
- Lacquered aluminium, copper or zinc
- VELUX ThermoTechnology™ insulation

Downloads

For installation instructions, CAD drawings, 3D BIM objects, 3D GDL objects etc, please visit www.velux.co.uk

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		GPU CK04 (0.29)		GPU MK04 ▲ (0.47)			
1178 mm		GPU CK06 ▲ (0.37)	GPU FK06 ▲ (0.47)	GPU MK06 ▲ (0.59)	GPU PK06 ▲ (0.75)	GPU SK06 ▲ (0.95)	
1398 mm			GPU FK08 ▲ (0.58)	GPU MK08 ▲ (0.72)	GPU PK08 ▲ (0.92)	GPU SK08 ▲ (1.16)	GPU UK08 ▲ (1.40)
1600 mm				GPU MK10 ▲ (0.85)	GPU PK10 ▲ (1.07)	GPU SK10 ▲ (1.35)	

( ) = Effective daylight area, m²   ▲ = Sizes suitable for Emergency Escape requirements

Lining measurements

Size	Width (mm)
CK--	495
FK--	605
MK--	725
PK--	887
SK--	1085
UK--	1285
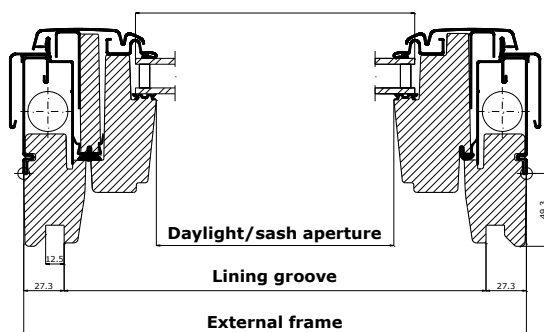
Size	Height (mm)
--04	919
--06	1119
--08	1339
--10	1549
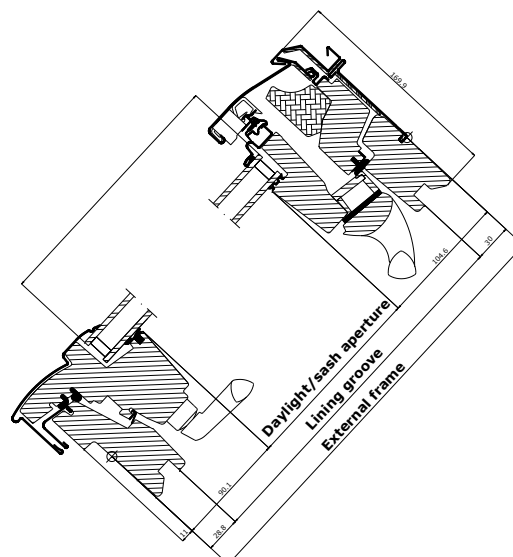
A top-hung roof window is ideal if you have to, or wish to, place your window at a high level, for instance in connection with a high knee wall.

For an unobstructed panoramic view, the window opens outwards on its top hinges to an angle of 45°.

Width

Daylight/sash aperture
Lining groove
External frame

Height

Daylight/sash aperture
Lining groove
External frame

Technical values

	--70	--68	--66	--62	--69	--67
U_w [W/m²K]	1.3	1.1	1.0	0.96	1.1	0.88
U_g [W/m²K]	1.0	0.7	0.6	0.5	0.7	0.5
R_w [dB]	35	35	37	42	35	38
g [ ]	0.46	0.55	0.44	0.52	0.27	0.44
τv [ ]	0.68	0.73	0.62	0.73	0.57	0.62
τuv [ ]	0.05	0.05	0.05	0.05	0.05	0.05
Air permeability [class]	4*	4*	4*	4*	4*	4*

* size PK10 Air permeability is class 3.

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

	--70	--68	--66	--62	--69	--67
Inner glass pane	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	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	3 mm heat strengthened float with low ε coating	3 mm heat strengthened float	3 mm heat strengthened float with low ε coating
Outer glass pane	4 mm toughened with coatings	4 mm toughened with coatings	4 mm toughened with coatings	8 mm toughened with coating	4 mm toughened with coatings	4 mm toughened with coatings
Cavity	15 mm	2 x 12 mm	2 x 13 mm	2 x 11 mm	2 x 12 mm	2 x 10 mm
Glass panes	Double	Triple	Triple	Triple	Triple	Triple
Gas filling	Argon	Argon	Argon	Krypton	Argon	Krypton

Glazing features

		--70	--68	--66	--62	--69	--67
	Heat insulation Low energy glazing provides reduced heat loss through the window and enhanced indoor comfort.	●	●●	●●●	●●●	●●	●●●
	Solar gain In the wintertime, the heat from the sun entering through the windows is a usable solar gain.	●●●	●●	●●	●●	●	●●
	Solar protection 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 A combination of laminated glass and optimal glass thickness provides better sound insulation. Frame/sash construction and gaskets are equally important.	●●	●●	●●●	●●●	●●	●●●
	Security Thicker laminated inner glass pane designed to increase resistance to manual attack (burglary).	●	●	●	●	●	●
	Safety 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 Toughened outer glass pane makes your glazing more resistant to hail, heavy wind and snow loads.	✓	✓	✓	✓	✓	✓
	Delayed fading of materials Inner laminated glass protects materials behind the glass against UV radiation and therefore delays fading of the materials.	✓	✓	✓	✓	✓	✓
	Rain noise reduction 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.	✓	✓	✓	✓	✓	✓
	Easy-to-clean 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 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 or triple glazing					
	Width					
	CK--	FK--	MK--	PK--	SK--	UK--
Air flow characteristics [l/s]	1.9	2.3	2.8	3.4	4.1	4.8
Air flow exponent [-]	0.53	0.53	0.53	0.53	0.53	0.53
Ventilation capacity at 4 Pa [l/s]	4.0	4.8	5.8	7.1	8.5	10.0
Ventilation capacity at 8 Pa [l/s]	5.7	6.9	8.4	10.2	12.3	14.5
Ventilation capacity at 10 Pa [l/s]	6.4	7.8	9.5	11.5	13.9	16.3
Ventilation capacity at 20 Pa [l/s]	9.3	11.3	13.7	16.6	20.1	23.5
Equivalent area through ventilation flap [mm2]	2600	3100	3700	4600	5600	6600
Geometrical free area [mm2]	2800	3700	4500	6100	7200	10600

Please note that the glazing type 62 has negligible ventilation through the ventilation flap due to the construction of the window.
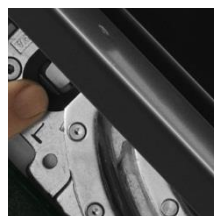
1 Lock casing
- electro-galvanised steel
- colour: "silver"

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

5 Excellent insulation
ThermoTechnology™
- expanded polystyrene
- colour: grey charcoal
- thermally modified timber

6 Barrel bolts
- plastic
- colour: white
- steel
- colour: "silver"

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

8 Barrel bolt bushings
- plastic
- colour: white
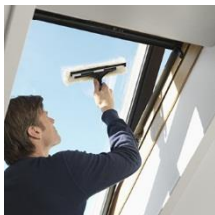
9 Bottom handle
- anodised aluminium

Cleaning and maintenance

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

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 enquiries@velux.co.uk

Interior finish

White lacquer	Lacquer, white, NCS standard colour: S 0500-N, nearest RAL standard colour: 9003.
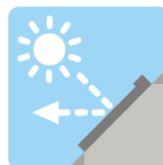
Special colour requests, please contact enquiries@velux.co.uk

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	•
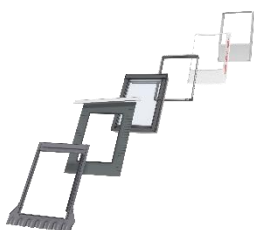
••• Available in manual and mains/solar powered versions
•• Available in manual and mains powered versions
• Available in manual version
The mains and solar powered versions are part of the VELUX INTEGRA® product range.

Flashings and installation products

Flashings:
• ED- for single installation
• EB- for twin installation
• EK- for combi installation

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)

Note

We reserve the right to make technical changes.

For more information on roof window GPU and other VELUX products, please visit www.velux.co.uk