



## VIKING PASSIVE WINDOW

Viking Window AS is an Estonian company which started the production of wood windows and exterior doors in 1997. Today the company has become one of the leading manufacturers of wood and aluminum clad windows and doors. Its products are highly valued on the international market. In addition to the United Kingdom and Ireland, Viking Window products are sold to Sweden, Norway, Denmark, Iceland, France and Japan. Viking Window is renowned for the high quality of the products, customer service and short lead times. All products are made to measure from environmentally friendly materials sourced sustainably.



Since 2000 Viking Window AS quality management system complies with the ISO 9001

standard. Since 2005 company's environmental management system complies with the ISO 14001 standard.



Since 2007, we have the FSC Chain of Custody certificate which proves that we use timber from responsibly managed forests.



In 2009 compliance to Norwegian Door and Window standards was certified.

### Viking SW14 aluclad passive window

The first outward opening passive house window developed and manufactured in Estonia and certified by the Passive House Institute in Germany.



- Weather proof construction specifically developed taking into consideration the climate of Estonia and the Nordic countries. The window's three gaskets ensure that the frame and casement are well insulated and condensation risks are minimised.
- 50 mm triple glazing with 2 low-E coatings (Planitherm Ultra N or Planitherm ONE), argon filled and warm edge spacers (SGG Swisspacer Ultimate) are used. Sun protection coatings (e.g. SKN174) may also be selected.
- The aluminium profile system improves the durability of wooden windows.
- Espagnolette with locking points around the casement makes the window secure while closed.



Viking SW14 aluclad passive window's thermal transmittance  $U_w$ : As a rule, when certifying passive windows, the prerequisite that in the case of the U-value of glazing  $U_g = 0.70 \text{ W/m}^2\text{K}$  then the thermal transmittance of the window must be  $U_w = 0.80 \text{ W/m}^2\text{K}$ . Taking into consideration the climate in Estonia and the Nordic countries, it is important to use glazing with better insulation.

Viking SW14 window is available in various opening types. Fixed light and opening windows can also be installed on one handle.



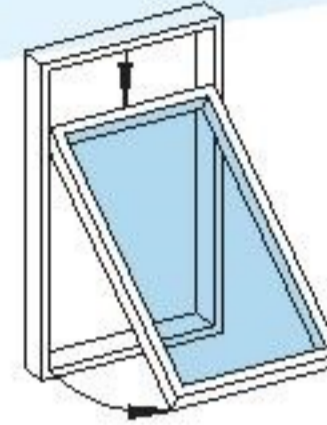
U-value of glazing $U_g$ ( $\text{W/m}^2\text{K}$ )	U-value of Viking SW14 Aluclad Passive $U_w$ ( $\text{W/m}^2\text{K}$ )
0,47	0,63
0,53*	0,68
0,55	0,69
0,58	0,71
0,64	0,76
0,70	0,80

\*Standard 50 mm 3-glazed unit with 2 Planitherm Ultra N coatings.

## Opening types of Viking Outward Opening Triple Glazed Windows

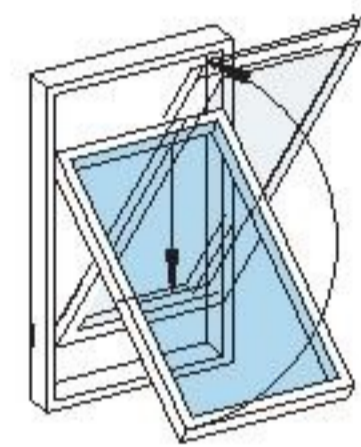
### Top guided window

Up to 1,84 m<sup>2</sup> opening window. Concealed hinges create modern look and increase security. In case of need this type can be used as a fire escape. It is recommended to use top guided window in places where it is possible to clean window from the outside (ground floor, balconies etc). Max weight 60 kg. Max opening W x H = 1580 x 1580 mm. Minimal allowed width 421 mm.



### Top swing window

Up to 2,05 m<sup>2</sup> opening window is a real light catcher for your home. Concealed hinges create modern look and increase security. The sash of this opening type can be turned around 180° for easy cleaning. Max weight 60 kg. Max opening W x H = 1680 x 1641 mm. Minimal allowed width 421 mm.



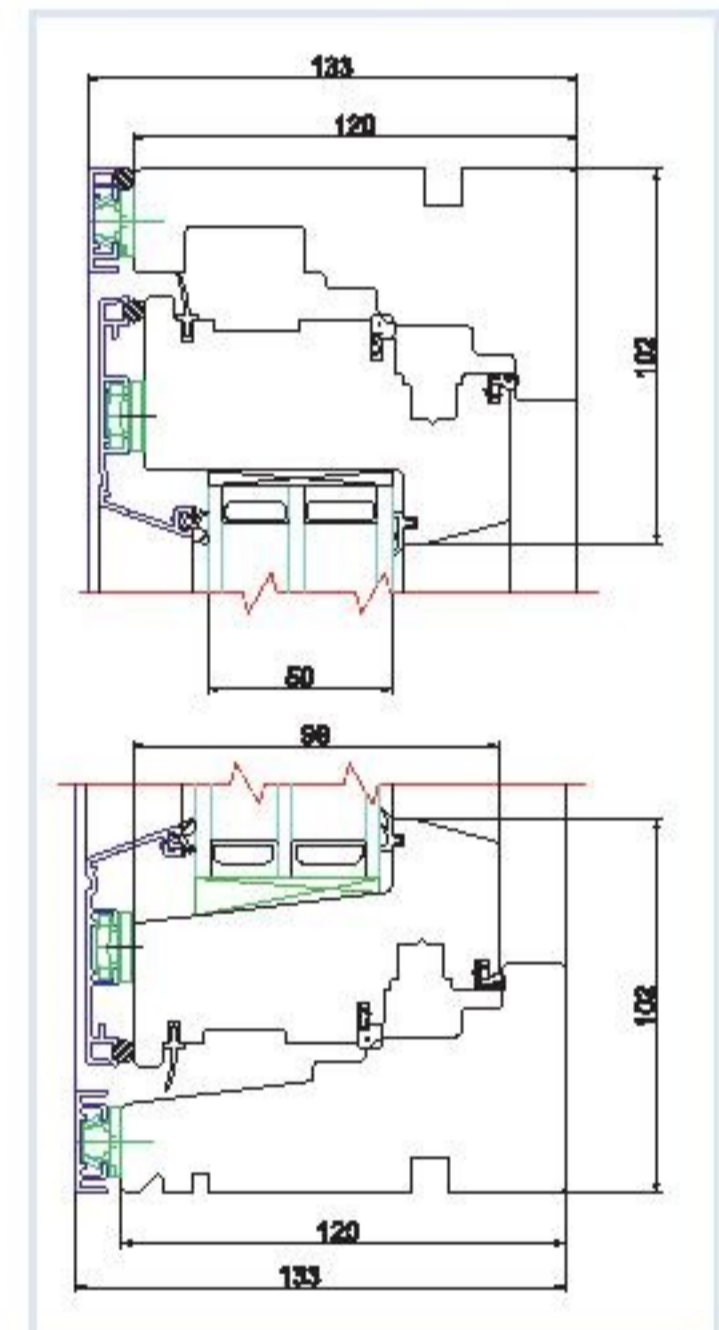
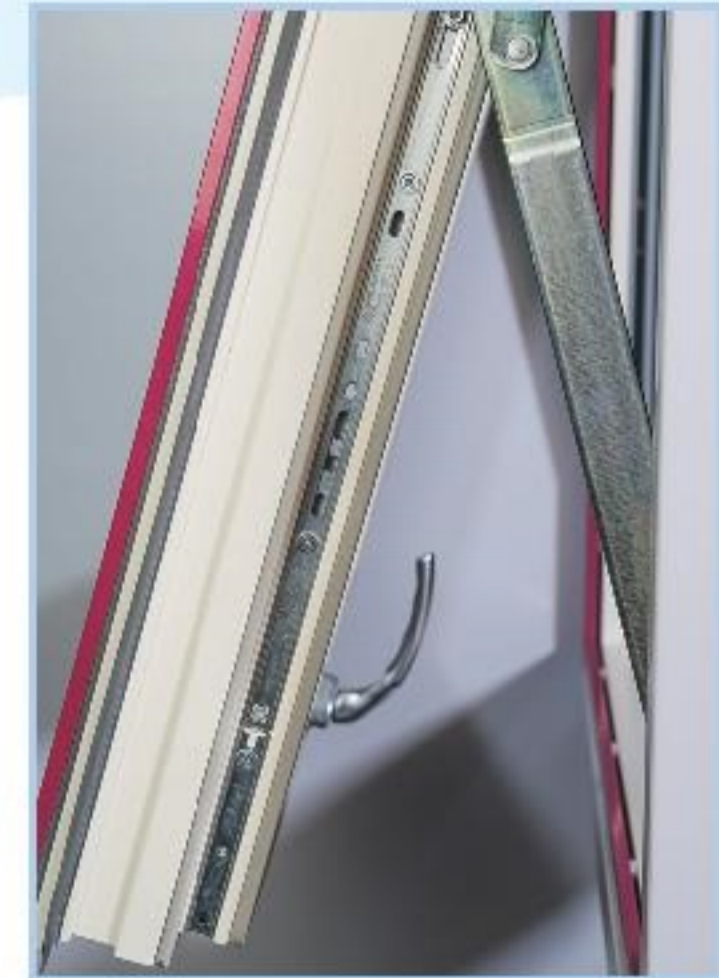
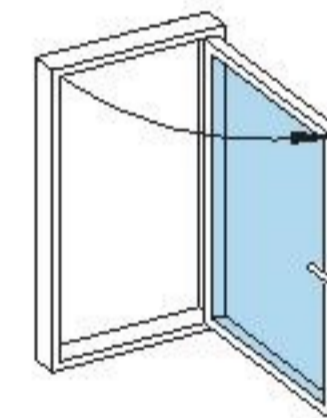
### Side guided (side projecting) window

Up to 1,6 m high window. Concealed hinges create modern look and increase security. The sash of this type can be turned sideways approximately 90° which enables easy cleaning. Available also as double French window (without mullion). Max weight 50 kg. Max opening casement W x H = 883 x 1683 mm. Minimal allowed width 500 mm.



### Side hung window

A window with traditional design. Available as double French window (without mullion) and in case of need can be used as a fire escape. Max weight 50 kg. Max opening W x H = 983 x 1683 mm. Minimal allowed width 600 mm.



### Technical properties

- Thermal transmittance:  $U_w = 0,68 \text{ W/m}^2\text{K}$  (standard glazing with  $U_g = 0,53 \text{ W/m}^2\text{K}$ ).
- Sound insulation: with 4 mm glass  $R_w (C; C_{tr}) = 34\text{db} (-1; -4)$ .
- Cross sections: frame 63 x 120 mm; sash 67 x 99 mm, extra aluminum profiles; overall depth with aluminum cladding 133 mm.
- Wooden profiles treated with water based preservative.
- Triple glazing unit with 2 low-E glasses; SGG Swisspacer Ultimate spacer bar; best  $U_g = 0,47 \text{ W/m}^2\text{K}$  (with Planitherm ONE).
- Hardware: PN-Beslag hinges, ROTO espagnolettes and Hoppe handles.
- Frame dimensions: W x H max 2,5 x 3,2 m.
- Multilight windows with transoms and mullions.
- Opening sashes up to 1.8 m<sup>2</sup>.

### Warranty

All products come with a five year warranty.

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