



## VIKING INWARD OPENING WOODEN 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.



The mark of responsible forestry

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.

Inward opening also known as tilt-and-turn windows are traditional to Central Europe. Typical opening type is side hung (turn) combined with the ventilation opening (tilt from top of the sash): tilt-and-turn window. Viking DK13 Window is a solid wooden window with the 78 mm profile system and Argon filled double or triple glazing unit. Thermal transmittance of the window is double glazed  $U_w = 1,29 \text{ W/m}^2\text{K}$  and triple glazed  $U_w = 0,94 \text{ W/m}^2\text{K}$ .

We use premium quality Nordic laminated pinewood to guarantee longevity of wooden parts. Depending on customer's requirements, the insulated glazing units can consist of various types of panes - reinforced/safety glass, energy efficient or acoustic glass, glass with sun protection properties etc.

Fixed light is a simple solution which includes a glazing unit installed directly to the window frame. This is a way to increase light gain inside. A more complex variation could be a window with a fixed casement. This could be a case of historic buildings where it is required to maintain the outside face.

Viking Window product lines also include a wide variety of dividing possibilities for frames and casements: mullions, transoms, glazing bars and applied bars on glazing units. A single multilight window frame can be as big as 2,5 x 3,2 m.

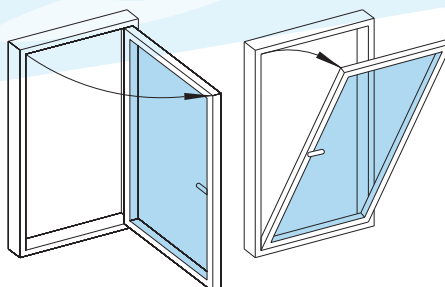
Besides rectangular windows, we also offer solution for angular and rounded openings.

All windows which can be opened have a handle in the middle of the jamb, relative to the height of the jamb. Tilt-and-turn windows have a handle on the vertical frame, and tilt windows have a handle on the top horizontal frame.



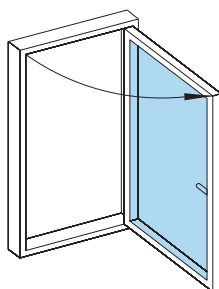
## Tilt and turn window:

Window opens inwards in two ways - traditional side hung (turn) and the ventilation opening (tilt from top of the sash). There is also micro ventilation possibility. In addition ventilation restrictor device can be added to hardware to enable to fix the position after tilting sash. Maximum weight of sash is 100 kg. Available also as double sash French window (without mullion).



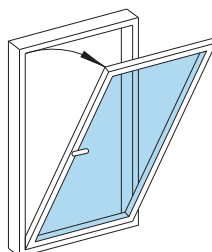
## Side hung window:

Window opens inwards to one side (turn). Maximum weight of sash is 100 kg. Available also as double sash French window (without mullion).



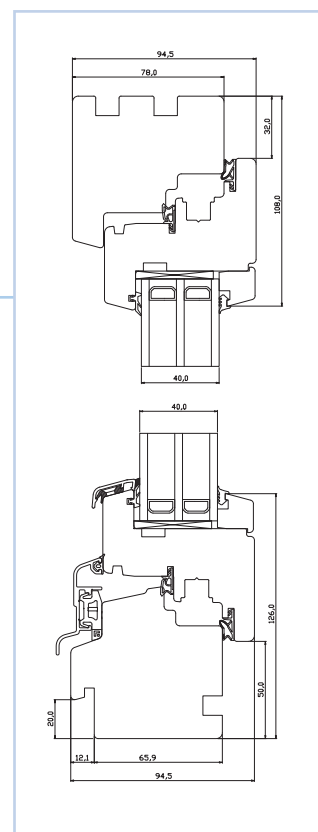
## Tilt window:

The window tilts inwards from the top, but only a little, to allow ventilation. Maximum weight of sash is 100 kg.



## Technical specifications:

- Thermal transmittance
- With double glazing:  $U_w = 1,29 \text{ W/m}^2\text{K}$ ;
- With triple glazing:  $U_w = 0,94 \text{ W/m}^2\text{K}$ ;
- Sound insulation:
- With double glazing:  $R_w (C; C_{tr}) = 33\text{db} (-1; -4)$ ;
- With triple glazing:  $R_w (C; C_{tr}) = 35\text{db} (-1; -5)$ ;
- Cross sections: frame 78 x 78 mm; sash 78 x 78 mm; transom/mullion 105 x 78 mm; glazing bar 63 x 78 mm or 85 x 78 mm;
- Pine wood with quality class A1-A3;
- Wooden profiles treated with water based preservative;
- Glazing unit: double glazing 26 mm ( $U_g = 1,1 \text{ W/m}^2\text{K}$ ) or triple glazing 40 mm ( $U_g = 0,6 \text{ W/m}^2\text{K}$ );
- Hardware: ROTO;
- Frame dimensions: WxH max. 2,5 x 3,2 m;
- Multilight windows with transoms and mullions;



EN 14351-1:2006 + A1:2010

## Warranty

All products come with a five year warranty.

[www.vikingwindow.eu](http://www.vikingwindow.eu)

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