



## VIKING 12 OUTWARD 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.



9001 standard. Since 2005 company's environmental management system complies with the ISO 14001 standard.

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



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.

## VIKING 12 OUTWARD OPENING WOODEN WINDOW

The idea of an outward opening window is developed in Scandinavian countries in harsh climate conditions: in Denmark and in Norway such windows have been the main solution in building practice.

The construction of an outward opening window is designed to have excellent performance and functionality during different season through the year: in high humidity, in dry conditions, while it is cold or hot. Gaskets and insulated glazing units used in the design ensure air tightness and energy efficiency. Carefully chosen wood and the use of tested hardware prolong window's life span.

### Advantages of outward opening windows:

- Simple structure and slim design.
- Excellent weather-proofness.
- Very good thermal resistance.
- Curtains, roll-up shutters and objects on the window sill will not obstruct the opening of the window.
- Provided that suitable hinge systems are chosen,
- windows can be easily cleaned from both sides.



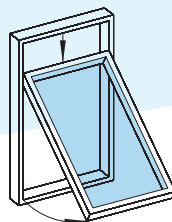
In Viking Window's product lines outward opening double glazed window is named Viking-12 Window. It is best described as a traditional window with double glazing, slim frames and internal moulded profile.



# VIKING WINDOW AS

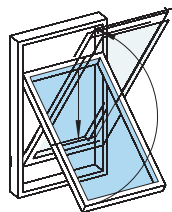
## Top guided window

The top hung (top guided) wooden window is ideal for use on the ground floor and in other places where the window can be cleaned from the outside. The exterior of the window does not have any protruding hinge system parts. The hinge system allows for a frame width of more than 1000 mm (see the table of max/min measurements).



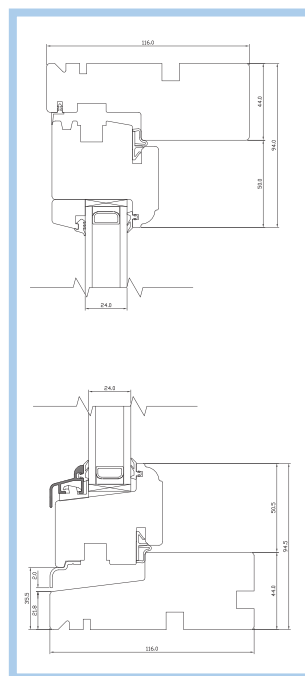
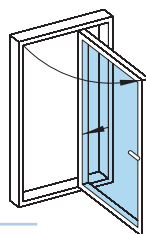
## Top swing (fully reversible) window

Up to 2,05 m<sup>2</sup> opening casement is a real light catcher for your home. Sliding hinges hid into the groove between the frame and the casement provide modern look and increase security. The casement of this opening type can be turned around approximately 180° for easy access. So it can be used on higher floors.



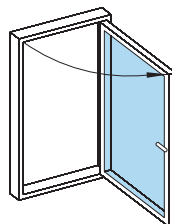
## Side guided (side projecting) window

Up to 1,6 m high casements. Sliding hinges hid into the groove between the frame and the casement provide modern look and increase security. The casement of this type can be turned sideways approximately 90° which enables access for cleaning. Available also as double casement french window (without mullion).



## Side hung window

A window with traditional design. Starting from the frame height 524 mm window has practical function to fix the casement by locking handle. Available as double casement french window (without mullion) and in case of need can be used as an evacuation opening.



## Fixed lights and windows with mullions and transoms:

- 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 outside face.



EN 14351-1:2000 A1:2010

### Technical properties:

- Thermal transmittance:  $U_w = 1,2 \text{ W/m}^2\text{K}$ ;
- Sound insulation:  $R_w (C; C_{tr}) = 33\text{db} (-1; -4)$ ;
- Cross sections: frame 44 x 116 mm; casement 61 x 61 mm; glazing bar 50 x 61, 44 x 61 mm;
- Pine wood with quality class A1-A3;
- Wooden profiles treated with water based preservative;
- Glazing: double glazing ( $U_g = 1,0 \text{ W/m}^2\text{K}$ );
- Hardware: PN-Beslag hinges, Fix espagnolettes and handles;
- Frame dimensions WxH max. 2,5 x 3,2 m;
- Multilight windows with transoms and mullions;
- Openable casement up to 2,05 m<sup>2</sup>.

### Warranty

All products come with a five year warranty.

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