



VIKING WINDOWS FOR PASSIVE HOUSES

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.

Viking Inward Opening Window for Passive Houses

To build passive or high energy efficient houses Viking Window has developed a window with a thermal transmittance of $U_w = 0,74 \text{ W/m}^2\text{K}$.

The windows for passive houses are inward opening windows and they are manufactured of special 88mm high quality wooden profiles.

Benefits of inward opening window:

- Practical functionality of tilt and turn opening combined in one window.
- Excellent weather tightness and thermal insulation
- Easy cleaning and maintenance
- Wood or aluminum clad finishing

The windows for passive houses are equipped with the Argon filled insulated glazing unit with two low-E glasses and SGG Swisspacer warm edge solution. It is possible to add complementary functions according to the user's needs: safety, noise insulation, anti-solar glass etc.

The hardware comes from leading German manufacturer, GU Uni-Jet, and the Hoppe handles also made in Germany are used to get the best performance. Tilt-turn windows (open to the side) have a handle in the middle, based on the frame length. Tilt only windows have a handle at the top.

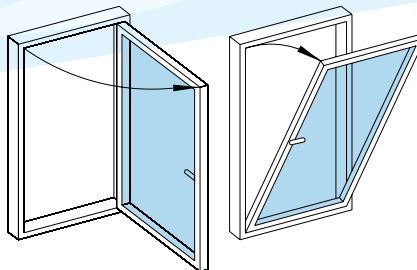
For window bars, we use struck glazing bars, bars glued to the glass surface or removable window bars.

If multiple sash's are combined into the same frame, it is possible to have a window without a post between (flying mullion). In that case, the passive frame will only open to the side and the active frame will open both to the side as well as tilt from the top.



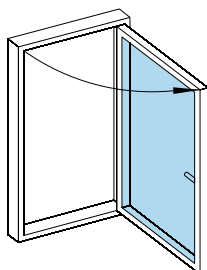
Tilt and turn window

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).



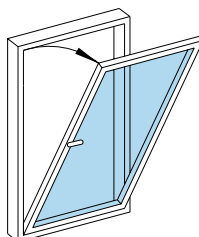
Side hung window

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.

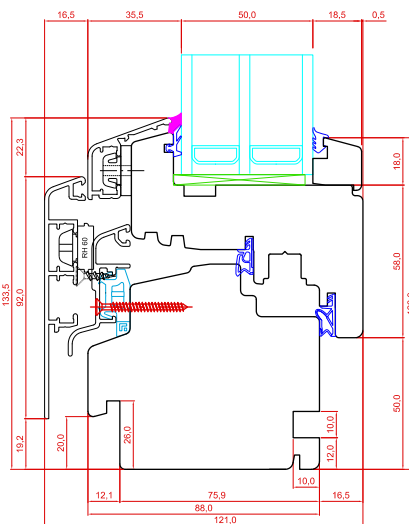
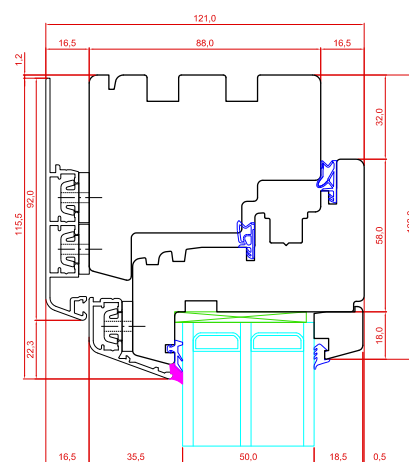


Fixed light window

Fixed light window is a simple solution where 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.

Technical specification of the window

- Cross sections: jamb 88 x 78 mm; frame 88 x 78 mm.
- Laminated pinewood A1 to A3.
- The timber is impregnated with Teknos wood preservative produced in Finland.
- Ironmongery: GU Uni-Jet hinge system, Hoppe handles.
- Glazing: triple-glazed (50 mm) glass unit, with Argon and energy-saving SGG Swisspacer.



Vertical cross-section of the Viking Passive Style Window



EN 14351-1:2006 + A1:2010

Warranty

All products come with a five year warranty.

www.vikingwindow.eu

HEAD OFFICE AND PRODUCTION
Mäo 72751 Järva County Estonia
Phone +372 384 8900
Fax +372 385 3027
e-mail: viking@viking.ee
www.vikingwindow.eu