



## Glazing and Frame Evidence Required for Use in Passivhaus Projects

### Glazing

Item	Evidence Required	Calculated to (decimal places)	Calculated to (EN standard)	Example
g-value	Glazing calculation certificate, e.g. Calumen, Guardian Configurator or similar.	2	EN 410 (this should be stated on certificate)	<a href="https://passipedia.org/media/picopen/glazing_characteristics.pdf">https://passipedia.org/media/picopen/glazing_characteristics.pdf</a>
U <sub>g</sub> -value	As above.	2 (or nearest 1 %, if given as percentage)	EN 673* (this should be stated on certificate)	

\* EN 673 only requires the U<sub>g</sub> to be given to 1 decimal place, but Passivhaus still requires it to be calculated to 2 decimal places. This is because Passivhaus buildings use so little energy that they are highly sensitive to small variations in U<sub>g</sub>-value.

### Frame Specifications

Item	Evidence Required	Calculated to (decimal places)	Calculated to (EN standard)	Example
U <sub>f</sub> -value (frame U-value)	Thermal modelling report, e.g. BFRC report. If cill, jambs or head are different from each other, a separate value must be provided for each.	2	EN 10077-2 (this should be stated on the report)	<a href="https://passipedia.org/media/picopen/uf_value_calculation.pdf">https://passipedia.org/media/picopen/uf_value_calculation.pdf</a>
Frame dimensions	Frame sections with scale bar or figured dimensions.	Nearest mm	-	<a href="https://www.rationel.co.uk/media/1659057/aura-tgu-windows1.pdf">https://www.rationel.co.uk/media/1659057/aura-tgu-windows1.pdf</a>
Spacer (glazing edge) Psi-value	Thermal modelling report OR IFT Rosenheim data sheet	3	EN 10077-2 (this should be stated on the report) OR IFT guideline WA-08engl/3	<a href="https://www.bundesverband-flachglas.de/en/downloads/data-sheets/">https://www.bundesverband-flachglas.de/en/downloads/data-sheets/</a>

Please provide the frame specifications as above for the opening window, fixed window, entrance door, balcony/terrace door, sliding door and rooflight (as applicable).