

# Certificate of Compliance



## Part L U-value declaration

This is to confirm that PVC-U windows and doors manufactured from WHS Halo systems, when used in conjunction with the maximum glass or panel centre pane U-value and warm edge spacer bar technology, will comply with the maximum U-value of 1.6 W/m<sup>2</sup>K for replacement windows, and the maximum of 1.8 W/m<sup>2</sup>K U-value for replacement doors, as required within Approved Document L1B of 2010 Building Regulations for England and Wales (Conservation of Fuel and Power).

### PVC-U window and door types covered by this Part L declaration

### Maximum Centre Pane U-value for glass or panel W/m<sup>2</sup>K

<b>Casements</b>	<b>1.5</b>
<b>Tilt &amp; Turns</b>	<b>1.5</b>
<b>Horizontal Pivots</b>	<b>1.5</b>
<b>Top Swings</b>	<b>1.5</b>
<b>Vertical sliders</b>	<b>1.5</b>
<b>Residential doors</b>	<b>1.5</b>
<b>French doors</b>	<b>1.5</b>
<b>Tilt &amp; Slide Patio doors</b>	<b>1.5</b>
<b>In-line Patio doors</b>	<b>1.5</b>
<b>Bi-folding doors</b>	<b>1.5</b>
<b>Residential doors with midrail (glass/glass &amp; glass/panel)</b>	<b>1.5</b>
<b>Residential doors with vacuum formed panels (solid &amp; glazed)</b>	<b>1.8</b>
<b>Composite doors (solid &amp; glazed slabs)</b>	<b>1.8</b>

**System10** *Rustique* **ECLIPSE** **ECLIPSE** *esthétique*

U-value calculations and simulations are in accordance with BS EN ISO 10077-1 and BS EN ISO 10077-2 and have been carried out by a BFRC approved simulator. U-value calculations are based on BR 443 window frame size and BS EN 14351-1 door sizes.

This declaration covers 62 mm and 70 mm frame depth; fully steel reinforced sections; external and internal beaded frames; small and large outer frames; systems specific thresholds and all frame colours and finishes.

Insulating glass units utilising warm edge technology with linear thermal transmittance ( $\psi$ ) of less than 0.05 W/m<sup>2</sup>K are required to be used in conjunction with this Part L U-value declaration.