

Summary of U Value Calculation

Undertaken by Sliders (UK) Limited

Door Style: 4 Panel Solid, 6 Panel Solid, Cottage,
Cottage Framed, Flush, Modern

The Ultimate
Collection COMPOSITE DOORS

Capstone door, 44mm, Plastic Frame (PVC Hollow with 3 Chambers)

Calculated following the principles of EN ISO 10077-1:2006

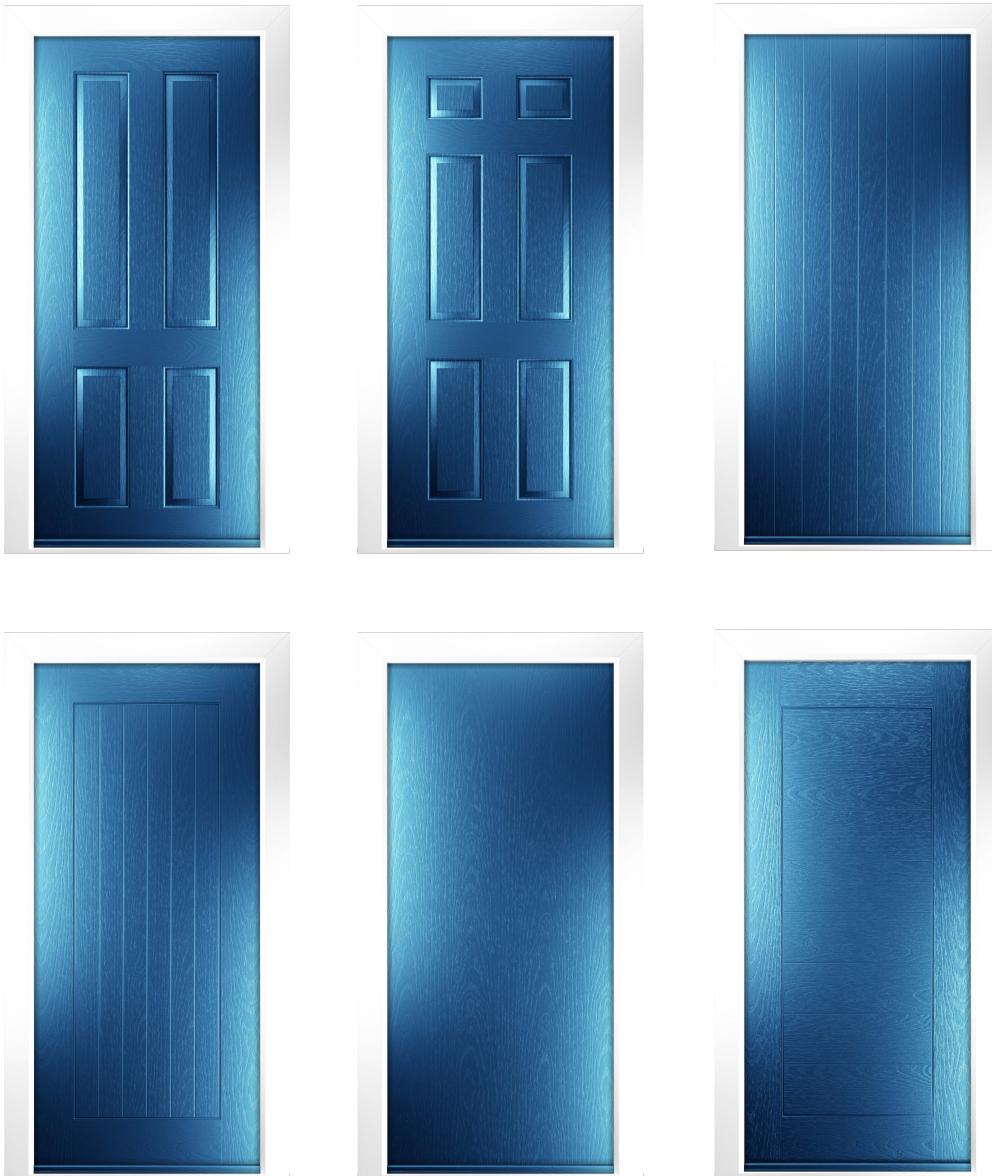
Basic Dimensions

Width of Opening: 1000 mm

Height of Opening: 2000 mm

Configuration of Unit: Frame & Pane Areas

Numbers on each frame edge correspond to the Frame Side in the frame table on the next page, and Circled Numbers refer to the Pane in the panes table.



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 Plastic Frame (PVC Hollow with 3 Chambers)

Door Frame

Side	A f,j	A f,e	A frame	Int. Frame W	Ext. Frame W	A f,di	A f,de	Thm Break	U frame
1	0.095 m ²	0.133 m ²	0.133 m ²	48 mm	68 mm	-	-	-	2.00 W/m ² .K
2	0.046 m ²	0.063 m ²	0.063 m ²	48 mm	68 mm	-	-	-	2.00 W/m ² .K
3	0.095 m ²	0.133 m ²	0.133 m ²	48 mm	68 mm	-	-	-	2.00 W/m ² .K
4	0.007 m ²	0.014 m ²	0.014 m ²	7 mm	15 mm	0.007 m ²	0.014 m ²	0.0 mm	5.88 W/m ² .K

$$\sum A_{\text{frame}} : 0.344 \text{ m}^2$$

$$\sum A_{\text{frame}} \cdot U_{\text{frame}} : 0.742 \text{ W/K}$$

Door Panes

Pane	Type	A panel	U panel	Perimeter	Spacer	PSI
1	Panel	1.656 m ²	0.641 W/m ² .K	5.698 m	None	0.000 W/m.K

$$\sum A_{\text{frame}} : 1.656 \text{ m}^2$$

$$\sum A_{\text{panel}} \cdot U_{\text{panel}} : 1.062 \text{ W/K}$$

$$\text{Mould value} : 0.123 \text{ W/K}$$

$$\sum I_{\text{panel}} \cdot \psi_{\text{panel}} : 0.000 \text{ W/K}$$

Final U Value for Unit: 0.96 W/m².K