

## **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

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### **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.



## Summary of U Value Calculation (ctd)

Door Style: 4 Panel Solid, 6 Panel Solid, Cottage, Cottage Framed, Flush, Modern  
 Capstone door, 44mm  
 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 <sup>2</sup>	0.133 m <sup>2</sup>	0.133 m <sup>2</sup>	48 mm	68 mm	-	-	-	2.00 W/m <sup>2</sup> .K
2	0.046 m <sup>2</sup>	0.063 m <sup>2</sup>	0.063 m <sup>2</sup>	48 mm	68 mm	-	-	-	2.00 W/m <sup>2</sup> .K
3	0.095 m <sup>2</sup>	0.133 m <sup>2</sup>	0.133 m <sup>2</sup>	48 mm	68 mm	-	-	-	2.00 W/m <sup>2</sup> .K
4	0.007 m <sup>2</sup>	0.014 m <sup>2</sup>	0.014 m <sup>2</sup>	7 mm	15 mm	0.007 m <sup>2</sup>	0.014 m <sup>2</sup>	0.0 mm	5.88 W/m <sup>2</sup> .K

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

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

### Door Panes

Pane	Type	A panel	U panel	Perimeter	Spacer	PSI
1	Panel	1.656 m <sup>2</sup>	0.641 W/m <sup>2</sup> .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/m<sup>2</sup>.K**