

Summary of U Value Calculation

Undertaken by Sliders (UK) Limited
Door Style: **Craftsman**

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

Door Glazing Profile

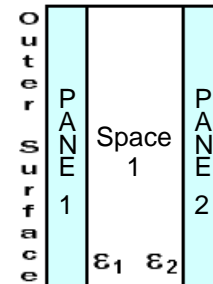
Number of Spaces: 1 (Double Glazing)
Gas Temperature: 283.15 K (10°C)
Normal Emissivity of Internal Glass Surface: 0.89

Space	Width	Gas Type
1	18 mm	Air Filled

Space	e1	e2
1	0.89 (0.84 corr)	0.89 (0.84 corr)

Pane	Thickness
1	4 mm
2	4 mm

Total Thickness of Glazing: 26 mm
External Heat Transfer Coefficient: 25 W/m².K
Internal Heat Transfer Coefficient: 7.7 W/m².K



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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Door Frame

Side	A f,i	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
Cassette	-	-	0.131 m ²	-	-	-	-	1.51 W/m ² .K	

$$\Sigma \text{ A frame} : 0.475 \text{ m}^2$$

$$\Sigma \text{ A frame} : \text{U frame} : 0.940 \text{ W/K}$$

Door Panes

Pane	Type	A panel	U panel	Perimeter	Spacer	PSI
1	Glass	0.082 m ²	2.740 W/m ² .K	3.712 m	Aluminium Generic	0.060 W/m.K
2	Glass	1.443 m ²	0.641 W/m ² .K	5.698 m	None	0.000 W/m.K

$$\Sigma \text{ A frame} : 1.525 \text{ m}^2$$

$$\Sigma \text{ A panel} \cdot \text{U panel} : 1.149 \text{ W/K}$$

$$\text{Mould value} : 0.000 \text{ W/K}$$

$$\Sigma \text{ I panel} \cdot \psi \text{ panel} : 0.223 \text{ W/K}$$

$$\text{Total Thermal Conductance of Glazing} : 5.13 \text{ W/m}^2 \cdot \text{K}$$

Final U Value for Unit: 1.2 W/m².K