Summary of U Value Calculation

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

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

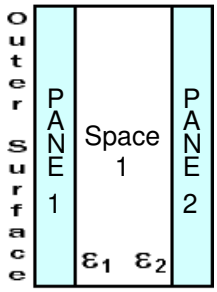
Door Glazing Profile

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.

Summary of U Value Calculation (ctd)

Door Style: **Tops**
Capstone door, 44mm
Plastic Frame (PVC Hollow with 3 Chambers)

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 m²	0.133 m²	0.133 m²	48 mm	68 mm	-	-	-	2.00 W/m².K
2	0.046 m²	0.063 m²	0.063 m²	48 mm	68 mm	-	-	-	2.00 W/m².K
3	0.095 m²	0.133 m²	0.133 m²	48 mm	68 mm	-	-	-	2.00 W/m².K
4	0.007 m²	0.014 m²	0.014 m²	7 mm	15 mm	0.007 m²	0.014 m²	0.0 mm	5.88 W/m².K
Cassette	-	-	0.033 m²	-	-	-	-	1.51 W/m².K	

ΣA_{frame} : 0.377 m²

$\Sigma A_{frame} : U_{frame}$: 0.791 W/K

Door Panes

Pane	Type	A panel	U panel	Perimeter	Spacer	PSI
1	Glass	0.020 m²	2.740 W/m².K	0.928 m	Aluminium Generic	0.060 W/m.K
2	Glass	1.603 m²	0.641 W/m².K	5.698 m	None	0.000 W/m.K

ΣA_{frame} : 1.623 m²
$\Sigma A_{panel} \cdot U_{panel}$: 1.084 W/K

Mould value : 0.000 W/K

$\Sigma l_{panel} \cdot \Psi_{panel}$: 0.056 W/K

Total Thermal Conductance of Glazing: 5.13W/m².K

Final U Value for Unit: 0.97 W/m².K