Summary of U Value Calculation

Undertaken by User, of Englex Ltd
Reference Number: Liniar Door demo
Uvalue override reference:
Liniar Door: Residential Style 1
Calculation Date: 02/02/2011 Calculated following the principles of EN ISO 10077-1:2006

Basic Dimensions

Width of Opening: 1000 mm
Height of Opening: 2000 mm

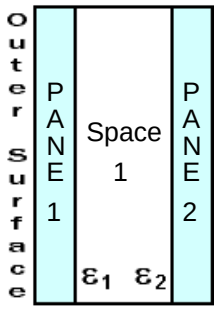
Door Glazing Profile

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

Space	Width	
1	16 mm	Air Filled

Space	ε_1	ε_2
1	0.89 (0.84 corr)	0.05 (0.06 corr)

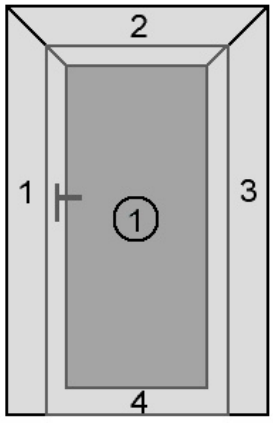
Pane	Thickness
1	6 mm
2	6 mm



Total Thickness of Glazing: 28 mm
External Heat Transfer Coefficient: 23 W/m².K
Internal Heat Transfer Coefficient: 8.0 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.



This data has been produced by the Oracle U Value Calculator. The results have not been independently checked or verified by Build Check Ltd / Build Check Publications Ltd. For verification contact publications@buildcheck.co.uk.

Summary of U Value Calculation (ctd)

Liniar Door: Residential Style 1

Calculation Date: 02/02/2011

Door Frame

Side	$A_{f,i}$	$A_{f,e}$	A_{frame}	U_{frame}
1	0.285 m²	0.285 m²	0.285 m²	1.59 W/m².K
2	0.132 m²	0.132 m²	0.132 m²	1.42 W/m².K
3	0.285 m²	0.285 m²	0.285 m²	1.59 W/m².K
4	0.157 m²	0.157 m²	0.157 m²	1.40 W/m².K

$\sum A_{frame}$: 0.859 m²

$\sum A_{frame} . U_{frame}$: 1.311 W/K

Door Panes

Pane	Type	A_{panel}	U_{panel}	Perimeter	Spacer	ψ_{panel}
1	Glass	1.141 m²	1.422 W/m².K	4.692 m	Aluminium Generic	0.080 W/m.K

$\sum A_{panel}$: 1.141 m²

$\sum A_{panel} . U_{panel}$: 1.622 W/K

$\sum l_{panel} . \psi_{panel}$: 0.375 W/K

Total Thermal Conductance of Glazing: 1.87W/m².K

Final U Value for Unit: 1.7 W/m².K

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Software Version: 1.02