Summary of U Value Calculation

Undertaken by Amanda Tyas, of Garrard Windows

Reference Number: A Rated Spec



Liniar Window: T & T (4.1)
Calculation Date: 2018-01-08

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

Basic Dimensions

Width of Opening: 1230 mm Height of Opening: 1480 mm

Window Glazing Profile

Number of Spaces: 1 (Double Glazing) Gas Temperature: 283.15 K (10°C)

Normal Emissivity of Internal Glass Surface: 0.89

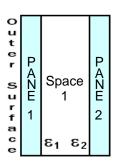
Space	Width	Gas Type
1	20 mm	10% Air : 90% Argon

Space	e1	e2	
1	0.89 (0.84 corr)	0.05 (0.06 corr)	

Pane	Thickness		
1	4 mm		
2	4 mm		

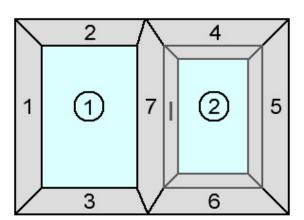
Total Thickness of Glazing: 28 mm

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.



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. Calculations valid for one month.

CE Marking: This U-value calculation may only be used for CE Marking purposes once verified by Build Check Ltd. (Notified Body No 1806)

Summary of U Value Calculation (ctd)



Reference Number: A Rated Spec

Liniar Window: T & T (4.1) Calculation Date: 2018-01-08

Window Frame

Side	A f,i	A f,e	A frame	Int. Frame W	Ext. Frame W	U frame
1	0.081 m²	0.081 m²	0.081 m²	57 mm	57 mm	1.20 W/m².K
2	0.032 m²	0.032 m²	0.032 m²	57 mm	57 mm	1.20 W/m².K
3	0.032 m²	0.032 m²	0.032 m²	57 mm	57 mm	1.20 W/m².K
4	0.057 m²	0.057 m²	0.057 m²	111 mm	111 mm	1.37 W/m².K
5	0.152 m²	0.152 m²	0.152 m²	111 mm	111 mm	1.53 W/m².K
6	0.057 m²	0.057 m²	0.057 m²	111 mm	111 mm	1.37 W/m².K
7	0.168 m²	0.168 m²	0.168 m²	121 mm	121 mm	1.66 W/m².K

 Σ A frame : 0.580 m²

 Σ A frame : U frame : 0.843 W/K

Window Panes

Pane	Туре	A panel	U panel	Perimeter	Spacer	PSI
1	Glass	0.712 m²	1.219 W/m².K	3.774 m	Thermobar	0.032 W/m.K

Pane	Туре	A panel	U panel	Perimeter	Spacer	PSI
1	Glass	0.712 m²	1.219 W/m².K	3.774 m	Thermobar	0.032 W/m.K
2	Glass	0.528 m²	1.219 W/m².K	3.356 m	Thermobar	0.032 W/m.K

 Σ A frame : 1.240 m²

Total Thermal Conductance of Glazing: 1.54W/m².K No cross bars and no attached bars: 0 W/m².K

Final U Value for Unit: 1.4 W/m².K

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