

## Summary of U Value Calculation

Undertaken by UCS, of 43-0011009118

Reference Number: GABBY

deceuninck

Deceuninck Window: Traditional 2500 casement (2.5.4.4.8.7.7.1)

Calculation Date: 2020-10-27

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: 2 (Triple Glazing)

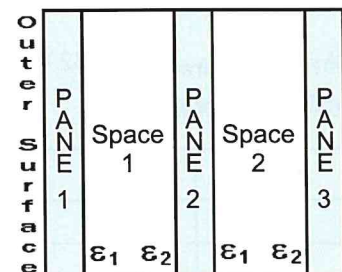
Gas Temperature: 283.15 K (10°C)

Normal Emissivity of Internal Glass Surface: 0.89

Space	Width	Gas Type
1	14 mm	10% Air : 90% Argon
2	14 mm	10% Air : 90% Argon

Space	e1	e2
1	0.14 (0.16 corr)	0.14 (0.16 corr)
2	0.14 (0.16 corr)	0.14 (0.16 corr)

Pane	Thickness
1	4 mm
2	4 mm
3	4 mm



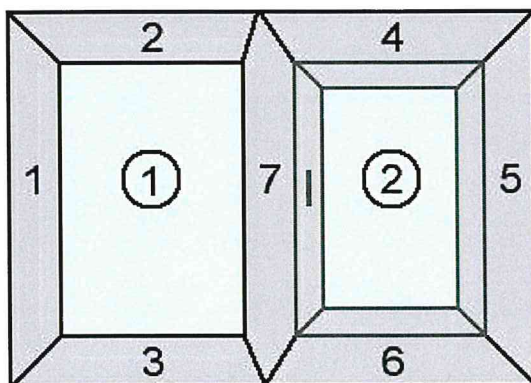
Total Thickness of Glazing: 40 mm

External Heat Transfer Coefficient: 25 W/m<sup>2</sup>.K

Internal Heat Transfer Coefficient: 7.7 W/m<sup>2</sup>.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)

Software Version: 2.1

## Summary of U Value Calculation (ctd)



Reference Number: GABBY

Deceuninck Window: Traditional 2500 casement (2.5.4.4.8.7.7.1)

Calculation Date: 2020-10-27

### Window Frame

Side	A f,i	A f,e	A frame	Int. Frame W	Ext. Frame W	U frame
1	0.099 m <sup>2</sup>	0.099 m <sup>2</sup>	0.099 m <sup>2</sup>	70 mm	70 mm	1.04 W/m <sup>2</sup> .K
2	0.039 m <sup>2</sup>	0.039 m <sup>2</sup>	0.039 m <sup>2</sup>	70 mm	70 mm	1.18 W/m <sup>2</sup> .K
3	0.039 m <sup>2</sup>	0.039 m <sup>2</sup>	0.039 m <sup>2</sup>	70 mm	70 mm	1.18 W/m <sup>2</sup> .K
4	0.060 m <sup>2</sup>	0.060 m <sup>2</sup>	0.060 m <sup>2</sup>	116 mm	116 mm	1.27 W/m <sup>2</sup> .K
5	0.158 m <sup>2</sup>	0.158 m <sup>2</sup>	0.158 m <sup>2</sup>	116 mm	116 mm	1.27 W/m <sup>2</sup> .K
6	0.060 m <sup>2</sup>	0.060 m <sup>2</sup>	0.060 m <sup>2</sup>	116 mm	116 mm	1.27 W/m <sup>2</sup> .K
7	0.157 m <sup>2</sup>	0.157 m <sup>2</sup>	0.157 m <sup>2</sup>	114 mm	114 mm	1.17 W/m <sup>2</sup> .K

$$\Sigma A_{\text{frame}} : 0.613 \text{ m}^2$$

$$\Sigma A_{\text{frame}} : U_{\text{frame}} : 0.732 \text{ W/K}$$

### Window Panes

Pane	Type	A panel	U panel	Perimeter	Spacer	PSI
1	Glass	0.685 m <sup>2</sup>	0.736 W/m <sup>2</sup> .K	3.703 m	Thermobar	0.030 W/m.K
2	Glass	0.522 m <sup>2</sup>	0.736 W/m <sup>2</sup> .K	3.333 m	Thermobar	0.030 W/m.K

$$\Sigma A_{\text{pane}} : 1.208 \text{ m}^2$$

$$\Sigma A_{\text{pane}} \cdot U_{\text{pane}} : 0.889 \text{ W/K}$$

$$\Sigma l_{\text{pane}} \cdot \psi_{\text{pane}} : 0.211 \text{ W/K}$$

Total Thermal Conductance of Glazing: 0.84W/m<sup>2</sup>.K

No cross bars and no attached bars: 0 W/m<sup>2</sup>.K

Final U Value for Unit: 1.0 W/m<sup>2</sup>.K

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