

# SPECIFICATION DATABASE



U28FDO - 7/24 - V1.0

Royale  
Collection

## 'u' Value - 2800 Opening Outward French Door

### Summary of U Value Calculation

Undertaken by MB Frames PVCu Ltd MB Frames PVCu Ltd, of 43-0011009086

Reference Number: 2800 FrenchDoor\_OpenOut

Deceuninck Door: Heritage 2800 double (18.16.16.16.16.4.1.1)

Calculation Date: 2019-01-18

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

### Basic Dimensions

Width of Opening: 2000 mm

Height of Opening: 2180 mm

### Door Glazing Profile

Number of Spaces: 1 (Double Glazing)

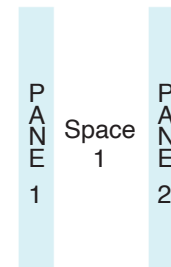
Gas Temperature: 283.15 K (10°C)

Normal Emissivity of Internal Glass Surface: 0.89

Space	Width	Gas Type
1	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



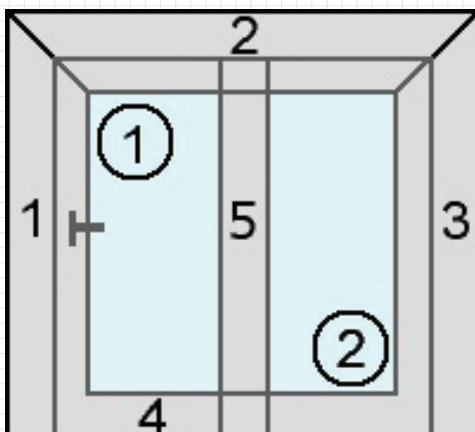
Total Thickness of Glazing: 28 mm

External Heat Transfer Coefficient: 25 W/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.



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This data has been produced by the Oracle U Value Calculator.  
The results have not been independently checked or verified by Build Check Ltd /  
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Calculations valid for one month.

Software Version: 2.1

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**Royale**  
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## 'u' Value - 2800 Opening Outward French Door

### Summary of U Value Calculation (ctd)

Reference Number: 2800 FrenchDoor\_OpenOut  
Deceuninck Door: Heritage 2800 double (18.16.16.16.4.1.1)  
Calculation Date: 2019-01-18

### Door Frame

Side	A f,i	A f,e	A frame	Int. Frame W	Ext. Frame W	U frame
1	0.285 m <sup>2</sup>	0.285 m <sup>2</sup>	0.285 m <sup>2</sup>	152 mm	152 mm	1.52 W/m <sup>2</sup> .K
2	0.304 m <sup>2</sup>	0.304 m <sup>2</sup>	0.304 m <sup>2</sup>	152 mm	152 mm	1.52 W/m <sup>2</sup> .K
3	0.285 m <sup>2</sup>	0.285 m <sup>2</sup>	0.285 m <sup>2</sup>	152 mm	152 mm	1.52 W/m <sup>2</sup> .K
4	0.304 m <sup>2</sup>	0.304 m <sup>2</sup>	0.304 m <sup>2</sup>	152 mm	152 mm	1.52 W/m <sup>2</sup> .K
5	0.439 m <sup>2</sup>	0.439 m <sup>2</sup>	0.439 m <sup>2</sup>	234 mm	234 mm	1.69 W/m <sup>2</sup> .K

$$\Sigma A_{\text{frame}} : 1.617 \text{ m}^2$$

$$\Sigma A_{\text{frame}} : U_{\text{frame}} : 2.533 \text{ W/K}$$

### Door Panes

Pane	Type	A panel	U panel	Perimeter	Spacer	PSI
1	Glass	1.371 m <sup>2</sup>	1.219 W/m <sup>2</sup> .K	4.980 m	Super Spacer Premium	0.031 W/m.K
2	Glass	1.371 m <sup>2</sup>	1.219 W/m <sup>2</sup> .K	4.980 m	Super Spacer Premium	0.031 W/m.K

$$\Sigma A_{\text{pane}} : 2.743 \text{ m}^2$$

$$\Sigma A_{\text{pane}} \cdot U_{\text{pane}} : 3.345 \text{ W/K}$$

$$\Sigma l_{\text{pane}} \cdot \psi_{\text{pane}} : 0.309 \text{ W/K}$$

Total Thermal Conductance of Glazing: 1.54W/m<sup>2</sup>.K

Final U Value for Unit: 1.4 W/m<sup>2</sup>.K

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