

SPECIFICATION DATABASE



U28FSC - 7/24 - V1.0

Royale
Collection

'u' Value - 2800 Flush Slim Coloured Window

Summary of U Value Calculation

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

Reference Number: 2800 Flush Casement_Slim_Steel

Deceuninck Window: Heritage 2800 flush casement (5.3.3.3.6.6.4)

Calculation Date: 2019-01-18

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)

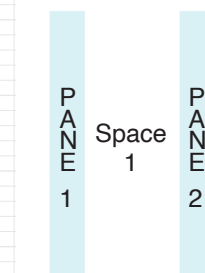
Gas Temperature: 283.15 K (10°C)

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



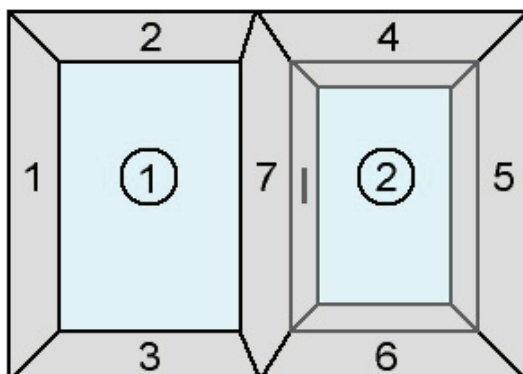
Total Thickness of Glazing: 28 mm

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.



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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 /
Build Check Publications Ltd. For verification contact publications@buildcheck.co.uk.
Calculations valid for one month.

Software Version: 2.1

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Collection

'u' Value - 2800 Flush Slim Coloured Window

Summary of U Value Calculation (ctd)

Reference Number: 2800 Flush Casement_Slim_Steel
Deceuninck Window: Heritage 2800 flush casement (5.3.3.3.6.6.4)
Calculation Date: 2019-01-18

Window Frame

Side	A f,i	A f,e	A frame	Int. Frame W	Ext. Frame W	U frame
1	0.078 m ²	0.078 m ²	0.078 m ²	55 mm	55 mm	1.22 W/m ² .K
2	0.031 m ²	0.031 m ²	0.031 m ²	55 mm	55 mm	1.22 W/m ² .K
3	0.031 m ²	0.031 m ²	0.031 m ²	55 mm	55 mm	1.22 W/m ² .K
4	0.054 m ²	0.054 m ²	0.054 m ²	104 mm	104 mm	1.36 W/m ² .K
5	0.143 m ²	0.143 m ²	0.143 m ²	104 mm	104 mm	1.36 W/m ² .K
6	0.054 m ²	0.054 m ²	0.054 m ²	104 mm	104 mm	1.36 W/m ² .K
7	0.166 m ²	0.166 m ²	0.166 m ²	119 mm	119 mm	1.46 W/m ² .K

$$\Sigma A_{\text{frame}} : 0.558 \text{ m}^2$$

$$\Sigma A_{\text{frame}} \cdot U_{\text{frame}} : 0.754 \text{ W/K}$$

Window Panes

Pane	Type	A panel	U panel	Perimeter	Spacer	PSI
1	Glass	0.718 m ²	1.219 W/m ² .K	3.788 m	Super Spacer Premium	0.031 W/m.K
2	Glass	0.544 m ²	1.219 W/m ² .K	3.400 m	Super Spacer Premium	0.031 W/m.K

$$\Sigma A_{\text{pane}} : 1.262 \text{ m}^2$$

$$\Sigma A_{\text{pane}} \cdot U_{\text{pane}} : 1.539 \text{ W/K}$$

$$\Sigma l_{\text{pane}} \cdot \psi_{\text{pane}} : 0.223 \text{ W/K}$$

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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