SPECIFICATION DATABASE

Royale Collection

‘u’ Value - 2800 Wide Frame White Window

Summary of U Value Calculation

Undertaken by MB Frames PVCu Limit, of 43-0011009086
Reference Number: 2800 White Wide Window

Deceuninck Window: Heritage 2800 storm casement (4.4.4.4.7.7.7.1)
Calculation Date: 2024-07-12 Calculated following the principles of EN ISO 10077-1:2006

Basic Dimensions

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

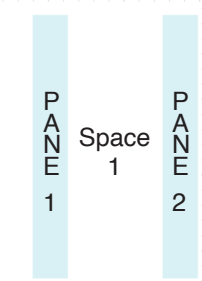
Window Glazing Profile

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	0.05 (0.06 corr)	0.89 (0.84 corr)

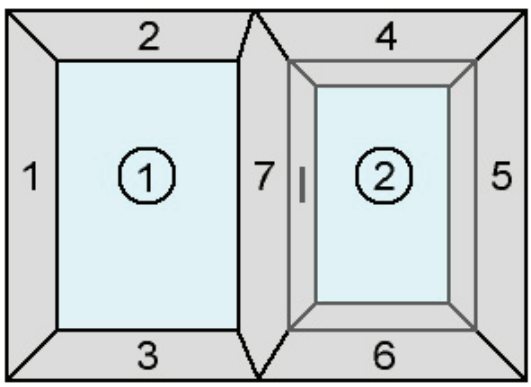
Pane	Thickness
1	4 mm
2	4 mm



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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SPECIFICATION DATABASE

Royale Collection

‘u’ Value - 2800 Wide Frame White Window

Summary of U Value Calculation (ctd)

Reference Number: 2800 White Wide Window
Deceuninck Window: Heritage 2800 storm casement (4.4.4.4.7.7.7.1)
Calculation Date: 2024-07-12

Window Frame

Side	A f,i	A f,e	A frame	Int. Frame W	Ext. Frame W	U frame
1	0.099 m²	0.099 m²	0.099 m²	70 mm	70 mm	1.26 W/m².K
2	0.039 m²	0.039 m²	0.039 m²	70 mm	70 mm	1.26 W/m².K
3	0.039 m²	0.039 m²	0.039 m²	70 mm	70 mm	1.26 W/m².K
4	0.059 m²	0.059 m²	0.059 m²	115 mm	115 mm	1.32 W/m².K
5	0.157 m²	0.157 m²	0.157 m²	115 mm	115 mm	1.32 W/m².K
6	0.059 m²	0.059 m²	0.059 m²	115 mm	115 mm	1.32 W/m².K
7	0.159 m²	0.159 m²	0.159 m²	115 mm	115 mm	1.41 W/m².K

ΣA_{frame} : 0.612 m²

$\Sigma A_{frame} : U_{frame}$: 0.810 W/K

Window Panes

Pane	Type	A panel	U panel	Perimeter	Spacer	PSI
1	Glass	0.685 m²	1.219 W/m².K	3.702 m	Superspacer Standard	0.036 W/m.K
2	Glass	0.524 m²	1.219 W/m².K	3.338 m	Superspacer Standard	0.036 W/m.K

ΣA_{frame} : 1.208 m²

$\Sigma A_{panel} \cdot U_{panel}$: 1.474 W/K

$\Sigma l_{panel} \cdot \psi_{panel}$: 0.253 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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