

U Value:

Window U Value - In accordance with Approved Document L 2013

Not
Certificate
but a calculation
by SMART

U Value
1.6 W/m²K

Company

Project

CMBS

Date

13 Mar 2021

WER:	Window Energy Rating: 196.74((1-f) x g _{glass}) - 68.5 x (U + (0.0165 x A _L))	-5.1 kWh/m²/Year
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Thermal Transmittance:	WER U Value of window calculated using the methods and conventions set out in BR443 Whole window U Value with frame, glazing and glass spacer bar combined. Standard window configuration set out by BR443 U Window: 0.622+0.934+0.148	1.7 W/m²K
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Frame:	Supplier: Smart Architectural Aluminium System: Alitherm 300 Outer Frame: ETC304F (2.110) Vent Frame: ETC324 (2.825) Transom Mullion: ETC335 (2.985) Heat Transfer: 2.660 W/m ² K x (23.4% Frame)	0.622 W/m²K
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Glazing: 1.2 is the glass	Supplier: SaintGobain Specification: 4/20/4 Diamant* PlanithermTotal+ Argon Centre Pane, g Value: 1.219 W/m ² K, 0.74 Heat Transfer: 1.219 W/m ² K x (76.6% Glass)	0.934 W/m²K
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Spacer:	Supplier: Thermoseal Spacer Bar: Thermobar Heat Transfer: 0.036 W/mK x (4.113m/m ²)	0.148 W/m²K
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U Value:	Window U Value: Calculation to BS EN 14351-1	1.6 W/m²K
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Overall

