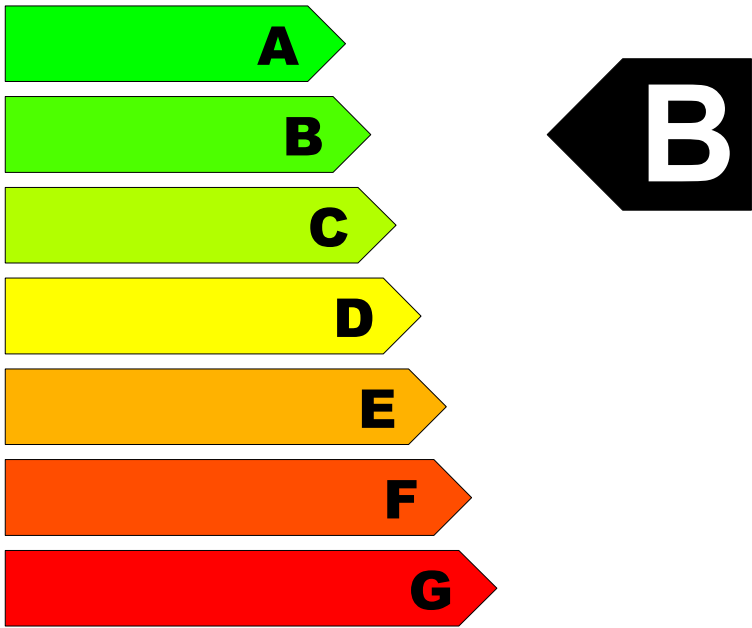


WER: Window Energy Performance Certificate

WER Window Energy Rating - In accordance with Approved Document L



Company	Swadlincote Windows Company Ltd.
Date	13 Nov 2025
BFRC System	SC010
BFRC Manufacturer	M1107
BFRC Simplified Energy Licence	SEL 6168

WER:	Window Energy Rating: $196.74((1-f) \times g_{\text{glass}}) - 68.5 \times (U + (0.0165 \times A_L))$	-1.3 kWh/m²/Year
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 in BR443/GGF 2.3 U Window: 0.523+0.902+0.127	1.551 W/m²K
Frame:	Supplier: Smart Architectural Aluminium System: Alitherm 400 Outer Frame: ETC4115F (1.687) Vent Frame: ETC4129F (2.314) Transom Mullion: ETC4135F (2.124) Heat Transfer: $U_f 2.103 \text{ W/m}^2\text{K} \times (24.9\% \text{ Frame})$	0.523 W/m²K
Glazing:	Supplier: Saint Gobain Specification: 4/20/4 Planiclear + Planitherm Total+ Argon Filled Black Warm Edge Centre Pane, g Value: 1.20 W/m²K, 0.71 Heat Transfer: $CP 1.20 \text{ W/m}^2\text{K} \times (75.1\% \text{ Glass})$	0.902 W/m²K
Spacer:	Supplier: Thermoseal Spacer Bar: Thermobar Heat Transfer: $Psi 0.031 \text{ W/mK} \times (4.087\text{m/m}^2)$	0.127 W/m²K
U Value:	Window U Value: Calculation to Document L 2021 1.23m(±25%)x1.48m(-25%)	1.5 W/m²K