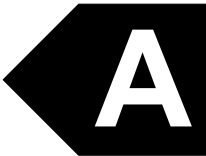
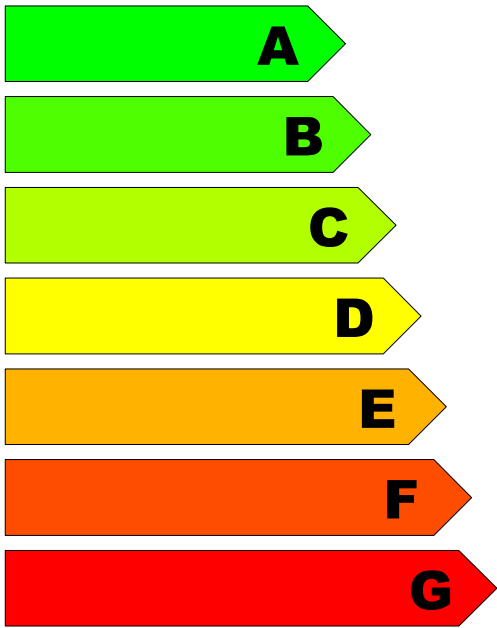


WER: Window Energy Performance Certificate

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 6167

WER:	Window Energy Rating: $196.74((1-f) \times g_{\text{glass}}) - 68.5 \times (U + (0.0165 \times A_L))$	-0.1 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: 0.505+0.902+0.127	1.533 W/m²K
------------------------	---	-------------

Frame:	Supplier: Smart Architectural Aluminium System: Alitherm 400 Outer Frame: ETC4110F (1.556) Vent Frame: ETC4129F (2.218) Transom Mullion: ETC4135F (2.124) Heat Transfer: Uf 2.029 W/m²K x (24.9% Frame)	0.505 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 W/m²K x (75.1% Glass)	0.902 W/m²K
----------	---	-------------

Spacer:	Supplier: Thermoseal Spacer Bar: Thermobar Heat Transfer: Psi 0.031 W/mK x (4.087m/m²)	0.127 W/m²K
---------	--	-------------

U Value:	Window U Value: Calculation to Document L 2021 1.23m(±25%)x1.48m(-25%)	1.5 W/m²K
----------	---	-----------

