ENERGY PERFORMANCE CALCULATOR

70MM FLUSH SASH CASEMENT WINDOW



This document shows suggested specifications and have been determined with consideration of more realistic scenarios, cost effectiveness and industry standards.

- No large head ventilation
- PVCu Thermal Reinforcement only
- No double coatings on DGU
- No triple coatings on TGU
- 90% Argon (10% Air) only
- 4mm glass only

LOWEST U-VALUE & HIGHEST ENERGY RATING		
	U-Value: 1.1 W/m²K	WER: A+ (>10 to 20 Energy Index)
Calculation Method	25% Rule	Standard
Window Suite	EnergyPlus	EnergyPlus
Outer Frame	Small	Small
Large Head	No	No
Mullion	Standard	Standard
Reinforcement	PVCu	PVCu
Glazing Flipper	Yes	Yes
Thermal Dam	Yes	Yes
Glazing Thickness	28mm (Triple)	28mm (Double)
External Pane	4mm Float	4mm Low Ion
Cavity	90% Argon (10% Air)	90% Argon (10% Air)
Internal Pane	4mm Optitherm™ S1 Plus 4mm Planitherm® One T FG 4mm Climaguard® 1.0+	4mm K Glass™ S 4mm Planitherm® Total+ FG 4mm Climaguard® A+
Spacer Bar	Multitech (Butyl) or (PU/PS) Multitech G (Butyl) or (PU/PS)	Edgetech T-Spacer™ SG (Butyl) or (PU/PS) Edgetech Super Spacer® Premium Edgetech TruPlas® (Butyl) or (PU/PS)

Indicated values (U-Value and WER) can be improved further but with the use of 90% Krypton (10% Air) gas.

THERMAL COMPLIANCE - PART L (REPLACEMENT)		
	U-Value: ≤1.4 W/m²K	WER: B (-10 to <0 Energy Index)
Calculation Method	Standard	Standard
Window Suite	Standard	Standard
Outer Frame	Small	Small
Large Head	No	No
Mullion	Standard	Standard
Reinforcement	PVCu	PVCu
Glazing Flipper	No	No
Thermal Dam	No	No
Glazing Thickness	28mm (Double)	28mm (Double)
External Pane	4mm Float	4mm Float
Cavity	90% Argon (10% Air)	90% Argon (10% Air)
Internal Pane	4mm K Glass™ S 4mm Planitherm® Total+ FG 4mm Climaguard® A+	4mm K Glass™ 4mm Planibel G
Spacer Bar	Edgetech T-Spacer™ SG (Butyl) or (PU/PS) Edgetech Super Spacer® Premium Edgetech TruPlas® (Butyl) or (PU/PS)	Edgetech T-Spacer™ SG (Butyl) or (PU/PS) Edgetech Super Spacer® Premium Edgetech TruPlas® (Butyl) or (PU/PS)

THERMAL COMPLIANCE - PART L (NEW BUILD)	
	U-Value: ≤1.6 W/m²K
Calculation Method	Standard
Window Suite	Standard
Outer Frame	Small
Large Head	No
Mullion	Standard
Reinforcement	PVCu
Glazing Flipper	No
Thermal Dam	No
Glazing Thickness	28mm (Double)
External Pane	4mm Float
Cavity	90% Argon (10% Air)
Internal Pane	4mm K Glass™ 4mm Planibel G
Spacer Bar	Edgetech T-Spacer™ SG (Butyl) or (PU/PS) Edgetech Super Spacer® Premium Edgetech TruPlas® (Butyl) or (PU/PS)