



Camden eCare
energy rated windows



Information Pack

Manufactured by: Camden Group

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Camden eCare Energy Rated Windows

Camden eCare Energy Rated Windows have been designed to minimise heat loss, retain natural heat from the sun and eliminate air leakage... all without compromising the security and quality of the windows.

Camden eCare Energy Rated Windows Range:

Energy Rating	Product Name	Outer Glass	Gas Fill	Inner Glass	Spacer Bar	Frame	U-value (whole window)
A	eCare Select+	Low Iron	Argon	Low E Soft Coat	Warm Edge Super Spacer	60C, 70C & 70S	1.40
B	eCare Advantage+	Float	Argon	Low E Soft Coat	Warm Edge Super Spacer	60C & 60S	1.42 - 1.45

eCare Vertical Sliders available with "A" and "B" ratings when fitted with Select+ glass & thermal reinforcement

Low Iron Glass:

- Clear appearance
- Excellent heat transmission
- Achieves an "A" rating when combined with Low E Soft Coat

Low E Soft Coat Glass:

- Excellent thermal insulation
- Maximum light transmission
- Soft Coat achieves an "A" rating when combined with Low Iron



Warm Edge Super Spacer:

- Foam-based spacer bar
- Less conductive than standard metal bars
- Heat loss reduced by up to 94%
- Fitted as standard to all our energy efficient windows

Argon Gas:

- Reduces convection
- Raises the overall glass unit temperature which helps to eliminate condensation

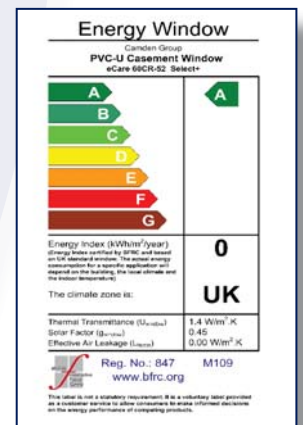
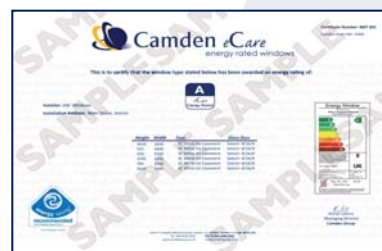


Energy Rated Windows - benefits for home owners.....

1) Save money on your home heating bills... your heating bills could be reduced by up to 20% per year.

2) Energy Rated Certificates... supplied with energy rated orders. These conform to current building regulations which requires 'Energy Performance Certificates' and if you are selling your home this certificate could help add thousands of pounds to its value.

3) The Environment... energy efficient windows will ensure you do "your bit" for the environment and will reduce your CO2 emissions by up to 2 tonnes.



Camden eCare Energy Rated Windows...100% energy efficient... 100% cost effective

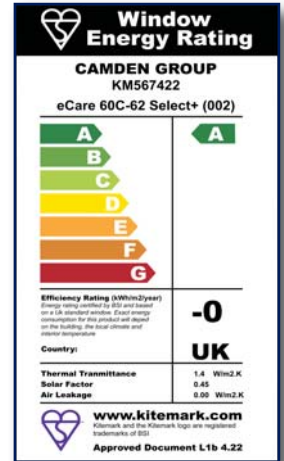
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What are Window Energy Ratings (WERs)?

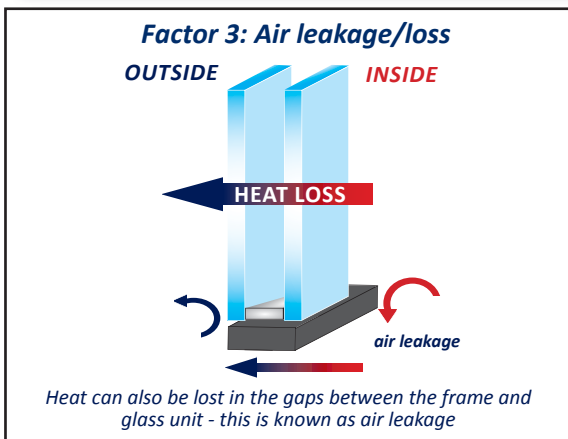
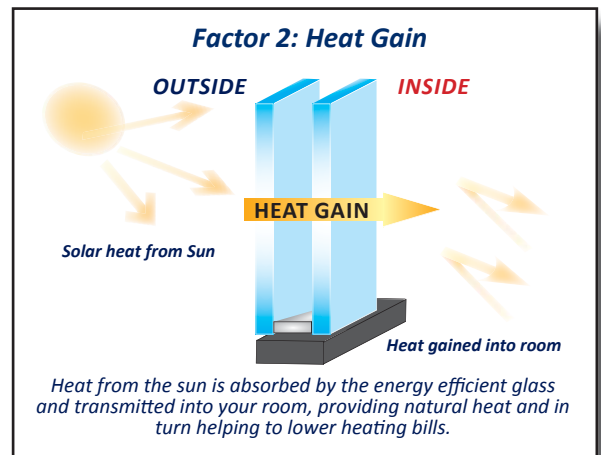
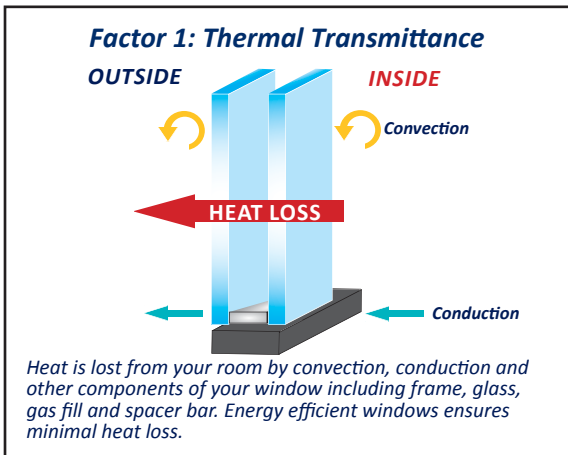
The energy efficiency of windows are measured by Window Energy Ratings. WER's take into account the performance of both frame and glass known as a whole window ratings, and are determined by three main factors:

- 1) Thermal Transmittance (U-window):** measures heat that is lost through the overall window - energy efficient windows reduce heat loss, therefore a lower u-window value means better energy efficiency.
- 2) Heat Gain (G-window):** measures the amount of heat that is absorbed from the sun - energy efficient windows transmit solar heat back into the room (helping to lower home-heating usage).
- 3) Air Leakage/Loss (L-factor):** measures heat loss that occurs as a result of general air leakage - an energy efficient frame and glass will help reduce air leakage.



Camden Group's range of Energy Rated Windows has been designed to minimise heat loss, absorb heat from the sun and eliminate air leakage... the result is savings on home heating bills and reduced energy waste.

Camden Energy Rated Windows are tested and certified by the British Standards Institute and approved by the Energy Saving Trust scheme.



Once all three factors have been calculated they are combined to produce a **Window Energy Ratings Index** which is banded into A-G categories as shown below:

Window Energy Rating Points* (kWh/m2/Year)	A - G Rating
0 and greater than zero	A
-10 to 0	B
-20 to 0	C
-30 to -20	D
-50 to -30	E
-70 to -50	F
Below -70	G

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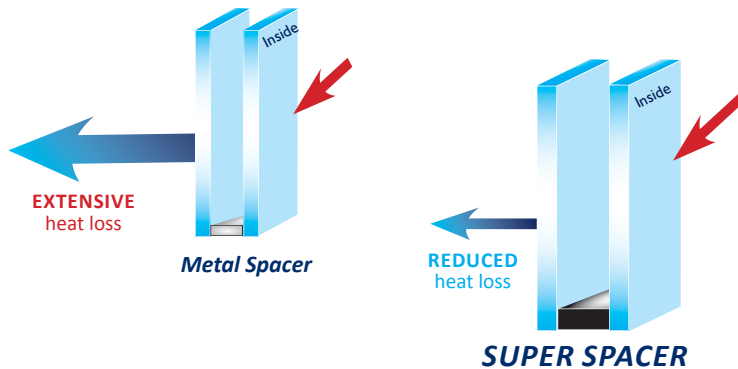


Super Spacer



Sealed glazing units manufactured by Camden Group, feature Super Spacer: a foam based spacer bar that ensuring energy efficiency for both your home and the environment...

Typically, windows fitted in homes and offices feature metal bars which separate the panes of glass in the sealed unit. However, metal is conductive and this often results in heat loss.



Super Spacer is a foam-based spacer bar and is therefore less conductive than standard metal spacer bars. This provides many advantages...

- ✓ Heat loss is reduced by up to **94%**, in turn reducing heating bills and costs
- ✓ Reduces noise transmission by up to **2dB**
- ✓ Condensation is reduced by up to **70%**, helping to eliminate bacteria on your windows
- ✓ 65% warmer internal edge, which means thermal bridging is all but eliminated.
- ✓ Less energy emissions and waste are released into the environment.

Camden eCare Energy Rated Windows...

Camden energy rated windows are fitted with Super Spacer as standard, and are designed to deliver the highest levels of energy efficiency while retaining maximum weather and security performance.

Camden eCare Energy Rated Windows are approved by the BFRG and Energy Saving Trust

"Super Spacer is 950 times less conductive than standard spacer bars..."



Camden Group - Energy Rated Windows Chart

60mm System

Rating	Name	Outer Frame	Glass Unit Spec	Unit Size	Reinforcement	Label No	Whole Window U-value (U _w)	Solar Gain	Air Leakage	Energy Index
A	60C Select+	52	Low Iron/Argon/Soft Coat - Warm Edge Spacer	4/16/4	Full/Partial Steel	001	1.5	0.46	0.00	0
A	60C Select+	62	Low Iron/Argon/Soft Coat - Warm Edge Spacer	4/16/4	Thermal Steel	002	1.4	0.45	0.00	0
B	60C Select+	75	Low Iron/Argon/Soft Coat - Warm Edge Spacer	4/16/4	Full/Partial Steel	004	1.5	0.43	0.00	-7
B	60C Advantage+	62	Float/Argon/Soft Coat - Warm Edge Spacer	4/16/4	Thermal Steel	006	1.4	0.40	0.00	-10
B	60S Advantage+	62	Low Iron/Argon/Soft Coat - Warm Edge Spacer	4/16/4	Thermal Steel	009	1.4	0.40	0.00	-9

70mm System

Rating	Profile Name	Outer Frame	Glass Unit Spec	Unit Size	Reinforcement	Label No	Whole Window U-value (U _w)	Solar Gain	Air Leakage	Energy Index
A	70C Select+	52	Low Iron/Argon/Soft Coat - Warm Edge Spacer	4/20/4	Full/Partial Steel	010	1.4	0.45	0.00	0
A	70C Select+	62	Low Iron/Argon/Soft Coat - Warm Edge Spacer	4/20/4	Thermal Steel	011	1.4	0.45	0.00	0
C	70C Choice+	52	Float/Argon/Soft Coat - Aluminium Spacer	4/20/4	Full/Partial Steel	012	1.6	0.45	0.00	-15
C	70C Choice+	62	Float/Argon/Soft Coat - Aluminium Spacer	4/20/4	Full/Partial Steel	013	1.6	0.43	0.00	-18
C	70C Choice	52	Float/Argon/Hard Coat - Warm Edge Spacer	4/20/4	Full/Partial Steel	014	1.7	0.45	0.00	-17
A	70S Select+	52	Low Iron/Argon/Soft Coat - Warm Edge Spacer	4/20/4	Full/Partial Steel	015	1.4	0.45	0.00	+1

Tilt N Turn & Vertical Slider

Rating	Profile Name	Outer Frame	Glass Unit Spec	Unit Size	Reinforcement	Label No	Whole Window U-value (U _w)	Solar Gain	Air Leakage	Energy Index
C	60C Tilt & Turn Select+	75	Low Iron/Argon/Soft Coat - Warm Edge Spacer	4/16/4	Full/Partial Steel	016	1.5	0.39	0.01	-17
A	70S Tilt & Turn Select+	62	Low Iron/Argon/Soft Coat - Warm Edge Spacer	4/20/4	Full/Partial Steel	017	1.4	0.44	0.00	0
B	Vertical Slider Select+	Std	Low Iron/Argon/Soft Coat - Warm Edge Spacer	4/16/4	Full Steel	018	1.5	0.43	0.05	-10
A	Vertical Slider Select+	Std	Low Iron/Argon/Soft Coat - Warm Edge Spacer	4/16/4	Thermal Sleeve*	019	1.4	0.45	0.02	0

Triple Glazed

Profile Name	Glass Unit Spec	Gas	Unit Size	Reinforcement	Colours	Centre Pane U-value (U _{cp})	Whole Window U-value (U _w)
60C Triple Glazed	Float/Soft Coat/Soft Coat	Argon	32mm	Thermal Steel	White, Cream, Oak, Mahogany & Black ¹	0.9	1.2
70C 1.0 Triple Glazed	Float/Soft Coat/Soft Coat	Argon	40mm	Thermal Sleeve*	White, Oak, Rosewood ²	0.7	1.0
70C 0.8 Triple Glazed	Float/Soft Coat/Soft Coat	Krypton	40mm	Thermal Sleeve*	White, Oak, Rosewood ²	0.4	0.8

1) Includes colour on colour/white. Bead for 60C TG: white/grey, cream/grey, white/black, mahogany/black, black/black, oak/acorn. Bead size: 18.5mm. No brown gasket available with mahogany bead. Uw calculations based on standard casement with 62mm outer frame & 76mm sash. Frames reinforced with steel & Retherm.

2) Includes colour on colour/white. Bead for 70C TG: white/black, rosewood/black, oak/black. Bead: 6.5mm. Uw calculations based on standard casement with 52mm outerframe & 75mm sash. Frames partially or fully reinforced with thermally sleeved steel.

* Please note that **Thermal Sleeve Reinforcement** (used in Vertical Slider "A" rated & 70mm triple glazed) will incur **additional costs/charges**