



ENERGY SAVING WINDOWS MAKE CLEAR SENSE



SGG EcoClear[®]+

Energy saving makes clear sense

It's important that your windows are both visually attractive and secure. But it's also crucial that they save you money on your heating bills by being energy efficient.

Windows with SGG EcoClear[®]+ double glazed units are the most technically superior glazing solutions available for your home today. Their thermally insulating glass technology means windows can achieve the highest possible Window Energy Ratings (WERs), as verified by the British Fenestration Rating Council (BFRC).

By choosing windows with EcoClear+ you have peace of mind knowing that you are working to help safeguard the environment by reducing CO₂ emissions and that you are keeping your energy bills down.



Windows with EcoClear+ allow optimum amounts of the sun's energy to pass through the glass into the room, allowing your home to benefit from free solar heat gain.

Using advanced coating technology that will last the lifetime of the window, EcoClear+ also reflects the heat inside your house back into the room rather than allowing it to escape. Both features reduce or eliminate the need for additional heating and contribute towards savings on your energy bills.

With cutting edge glass technology from the worldwide Saint-Gobain Group, EcoClear+ offers over three times more thermal insulation than single glazing and more than 25% better insulation than post - 2002 double glazing.

Energy Window	
Energy Windows Ltd XYZ 88abc	
	A
Energy Index (kWh/m ² /year) <small>(Energy Index verified by BFRC and based on UK standard window. The actual energy consumption for a specific application will depend on the building, the local climate and the indoor temperature.)</small>	UK
Thermal Transmittance (U _{frame}) Solar Factor (g _{frame}) Effective Air Leakage (l _{frame})	1.7 W/m ² .K 0.50 W/m ² .K 0.10 W/m ³ .K
	www.bfrc.org



SGG EcoClear[®]+

Savings, Performance and Clarity

Windows glazed with SGG EcoClear[®] are the gold standard of energy-rated windows, with no compromise on aesthetics or clarity.

- Save money on your heating bills with EcoClear+. A typical semi-detached house could save £7,500 over a 20 year period. To find out how much you could save on your bills, visit www.ecoclearbymorleyglass.co.uk and use the Energy Savings Calculator.
- Windows glazed with EcoClear+ are the highest-performing in terms of energy efficiency for your home (see below).

- EcoClear+ maximises the amount of natural light into your home, with no haze or tint effect as you would have on some older thermally insulated windows.
- Windows with EcoClear+ achieve an energy rating of A, B or C easily and cost effectively with practically every window frame to conform to, or exceed, current Building Regulations.
- EcoClear+ windows virtually eliminate internal condensation and reduce draughts and cold spots by using advanced glass and 'warm edge' spacer bar technology.

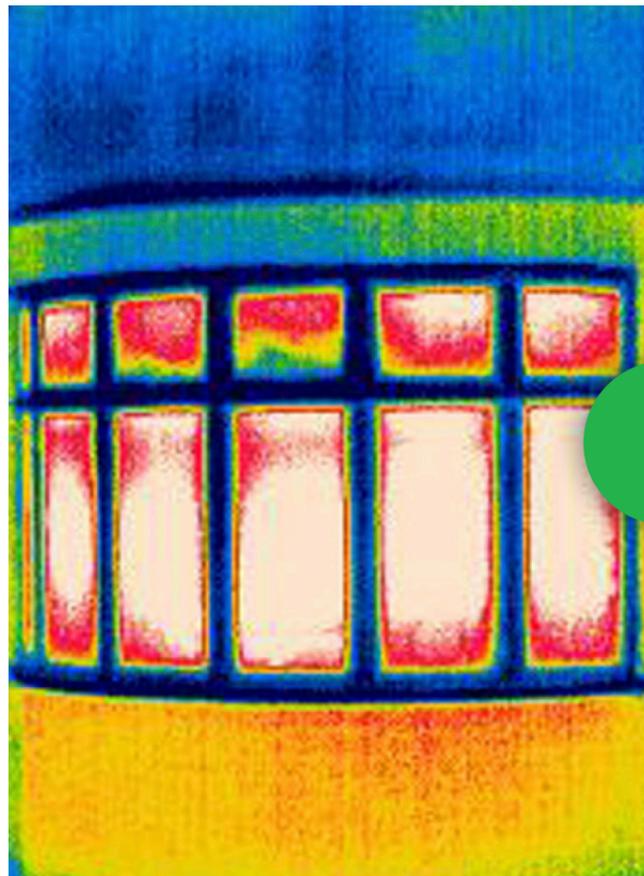
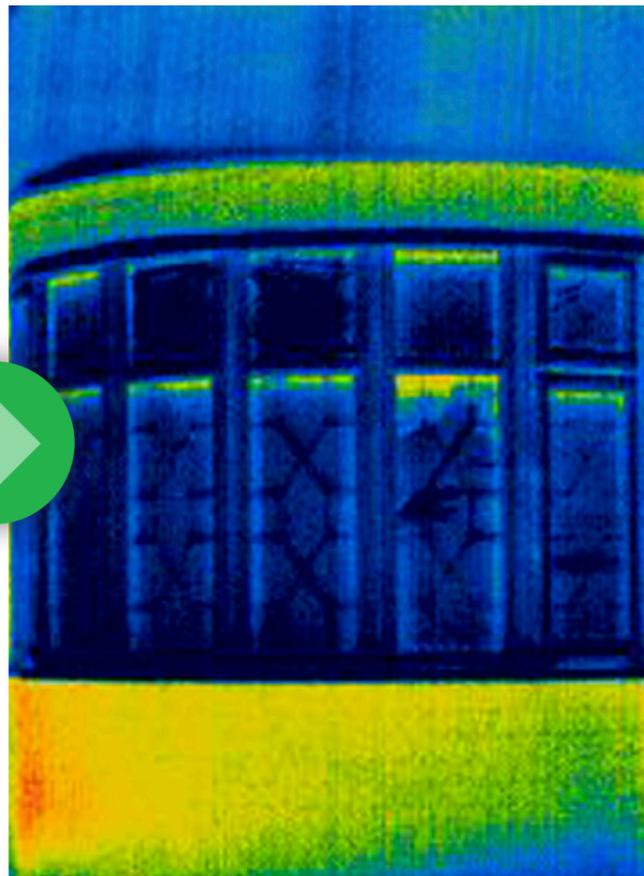
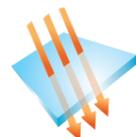


Image shows heat loss through a less technically advanced window, demonstrating how energy can be wasted through inefficient windows.



Installing EcoClear+ windows enables the heat to remain inside the room, significantly minimising heat loss.

That makes Clear sense.



Free solar heat gain



Thermal insulation



Virtual elimination of internal condensation



No haze or tint



- **Save** money on your heating bills
- **Maximise** the natural light in your home
- **Increase** the energy efficiency of your home
- **No draughts** or cold spots
- **Virtually eliminate** internal condensation



Old-fashioned thermally insulating glass

EcoClear+

The choice is Clear.

SGG EcoClear[®]+ Window Energy Ratings

The Window Energy Ratings (WER) labelling scheme was launched in the UK by the British Fenestration Rating Council (BFRC), a Government-supported independent body.

Window Energy Ratings were designed to demonstrate to consumers which windows perform well in terms of energy efficiency.

By using information contained on the label, consumers can reliably compare one product with another and make informed decisions regarding the energy performance of a window.

EcoClear+ enables you to achieve the best window energy ratings for your home.



The A-G rating system, similar to that already used with white goods in the home, gives a rating based on the performance of the whole window (frame and glass) and therefore allows fair comparison of one window with another.

Energy Window
Energy Windows Ltd.
XYZ 68/abc

A	A
B	
C	
D	
E	
F	
G	

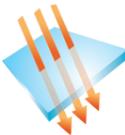
Energy Index (kWh/m²/year)
(Energy Index certified by BFRC and based on UK standard window. The actual energy consumption for a specific application will depend on the building, the local climate and the indoor temperature)

The climate zone is: **UK**

Thermal Transmittance (U _{window})	1.7 W/m ² .K
Solar Factor (g _{window})	0.50 W/m ² .K
Effective Air Leakage (L _{factor})	0.10 W/m ² .K

This label is not a statutory requirement. It is a voluntary label provided as a customer service to allow consumers to make informed decisions on the energy performance of competing products.

www.bfrc.org



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Thermal insulation



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No haze or tint

Performance Data

	EcoClear+ double glazing	2002-2010 double glazing	Pre 2002 double glazing	Single glazing
Overall Window Energy Rating	A-C	E	G	G
Thermal insulation (typical window u-value) <i>lower the better</i>	1.4	2.0	2.6	4.6
Optimum solar heat gain	✓	✓	✗	✗
Virtually eliminates internal condensation	✓	✗	✗	✗
Natural light	✓	✓	✓	✓

EXCELLENT ■ GOOD ■ POOR ■

Window Energy Rating

Represents how windows with different glazing types would perform with most leading PVCu, timber or aluminium window frames.

Virtually eliminates internal condensation

A combination of high performance glass and a warm edge spacer bar ensures virtual elimination of internal condensation.

Natural light

The more natural light that enters a room through a window the lighter and brighter interiors appear. However, some glass coatings can have a small tint effect which reduces the transmission of natural light, as seen in most post - 2002 double glazing.

Thermal insulation

A measure of the rate of heat loss of a typical PVC-u window (W/m²K). A principle reason for buying energy efficient window, the lower the u-value the better the window is at retaining heat.

Optimum solar heat gain

An optimum amount (70-75%) of the sun's energy passing through the window into the room is important in order to benefit from this free energy source, but without the room overheating in the summer. Works best when coupled with a good thermal insulating glass to keep the heat in the room.



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All sgc EcoClear+ units by Morley Glass and Glazing Ltd are manufactured to the following standards: Toughened safety glass to BS EN 12150 | Sealed units to BS EN 1279 Parts 1-6



10 year standard glass warranty.

All information is correct at the time of going to print (October 2010). Information may be subject to change and products may be modified or supplemented.

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Uni-Blinds



Morley
GLASS & GLAZING LIMITED