

Diamond Glass

CLEARLY THE RIGHT CHOICE



MAKE THE RIGHT CHOICE TODAY - SAVE TOMORROW



INTRODUCING DiamondClear

With today's growing concern for climate change and the ever increasing energy costs to the consumer, it is vitally important that we utilise the most energy efficient products on the market.



When it comes to glazing solutions for your home there is nothing that comes close to DiamondClear, with its thermally insulating glass technology (SGGPlanitherm®Total) we are able to achieve the highest possible Window Energy Ratings.

3 ENERGY SAVING OPTIONS

'A' RATED

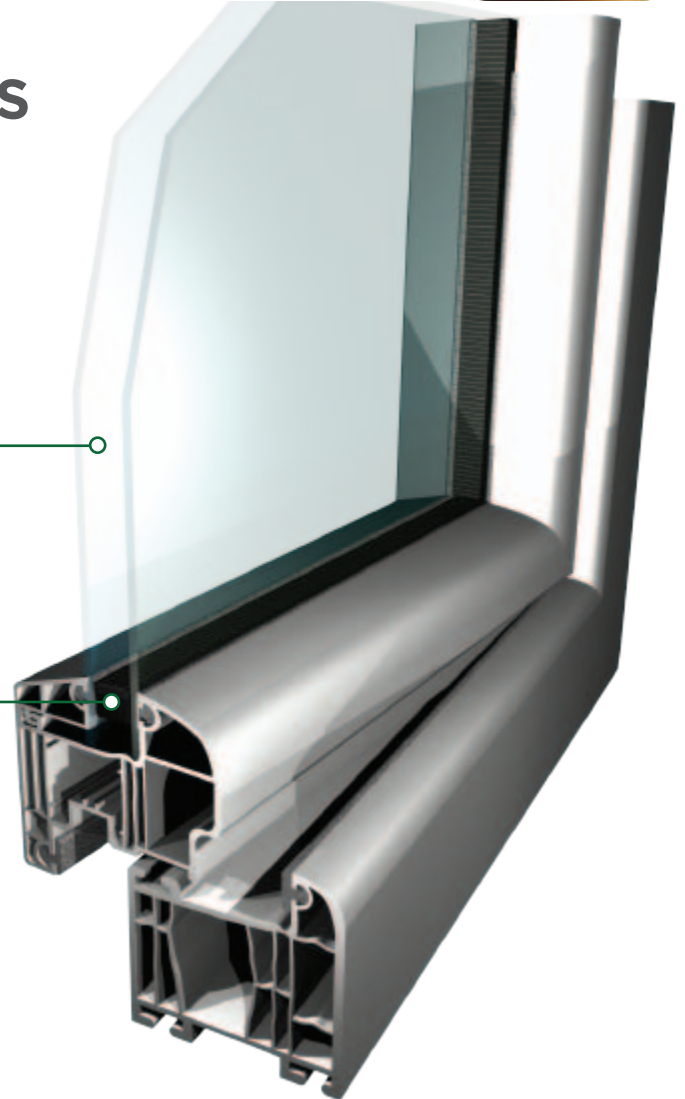
To achieve a superior 'A' rated energy efficient window, we combine SGGPlanitherm®Total + with argon gas, a warm edge spacer bar and extra clear glass.

'B' RATED

We take our 'A rated' solution, remove the extra clear glass and replace it with standard clear glass, giving us an exceptional 'B' rated energy efficient window.

'C' RATED

Last but not least, our 'C' rated energy efficient window is produced by simply using a standard aluminium spacer bar rather than the warm edge spacer bar.



SO HOW DOES IT WORK?

We all like green, free energy and there is no supply larger or more readily available than that of the sun. The sun generates solar energy and DiamondClear allows just the right amount of this energy (70-75%) to transfer through the glass to generate heat in your home. This optimum level ensures that your home does not over-heat in the summer.

Once this heat energy has passed into your home, DiamondClear has a specialist coating on the inside of the glass that prevents this energy from escaping by reflecting it back into the room ensuring that you save money by way of reduced central heating usage.

When it comes to thermal insulation DiamondClear is three times more efficient than single glazing and over 25% more effective than old thermally insulating glass.



DON'T SPOIL THE VIEW

Compared to old-fashioned thermally insulating glass, DiamondClear provides second to none window clarity. We all want the best view possible through our windows and DiamondClear ensures this by allowing as much natural light possible to flood into your home.



SAVING MORE THAN MONEY

We value the environment as we are sure you do and high quality glazed windows play a very important part in reducing CO2 emissions. So when you purchase DiamondClear you are not only saving money on your heating bill, you are also reducing your carbon footprint.

SAVINGS

Over a 20 year period the typical energy bill saving for a semi-detached house is £9,000.

REDUCE CO2

20 Years DiamondClear usage saves a staggering 30 Tonnes of CO2

WARRANTY

DiamondClear glass comes with a 10 year warranty

RECYCLE

All DiamondClear glass is manufactured from over 30% recycled glass.

ENERGY SAVING TRUST

The Energy Saving Trust is an independent, non-profit making organisation backed by the government. Its aim is to cut emissions of carbon dioxide, the main greenhouse gas, causing climate change, by promoting the sustainable and efficient use of energy.



The Energy Saving Recommended logo has been developed by the Energy Saving Trust to distinguish the most energy efficient products on the market.

Windows with a C rating of higher are eligible to be endorsed by the Energy Saving Trust and to use their logo (subject to approval).

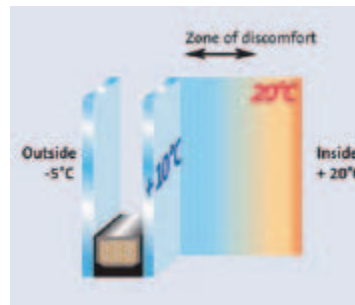
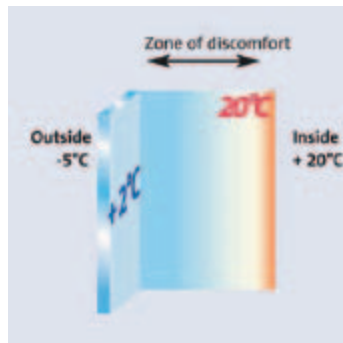
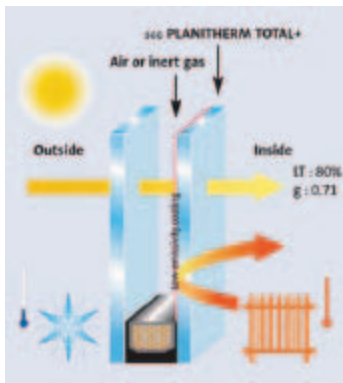
A NEW GENERATION OF ADVANCED LOW-E GLASS

Double glazed unit with **DiamondClear**

Temperature of the inner pane
4mm single glazing

Standard clear float double glazed unit
4mm (Air 12mm) 4mm

Double glazed unit with **DiamondClear**
4mm (90% Argon) 4mm



WINDOW ENERGY RATINGS

The three DiamondClear glazing solutions we offer achieve Window Energy Ratings of A,B or C.

Window Energy Ratings were launched in March 2004 by the British Fenestration Rating Council (BFRC), an independent government supported body established to develop and administer a system of Window Energy Ratings in the UK.

A window's Rating is determined by a formula which takes into account its total solar heat transmittance (usually referred to as g value), U value and air infiltration. The resulting value is then placed into a band on an A-G scale.

Energy Window	
	XYZ 68/abc
	A
Energy Index (kWh/m ² /year) <small>(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)</small>	9
The climate zone is:	UK
Thermal Transmittance (U-value)	1.7 W/m ² .K
Solar Factor (g-value)	0.50
Air Leakage (L-value)	0.10 m ³ /m ² .h
www.bfrc.org	
<small>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.</small>	

PERFORMANCE COMPARISON

Glazing Type	DiamondClear A	DiamondClear B	DiamondClear C	Standard Double	Single
Window energy rating	A	B	C	G	G
Thermal Insulation	1.2	1.2	1.4	2.6	4.6
Effect on eliminating internal condensation					
Optimum solar heat gain					



PERFORMANCE DEFINITIONS:

Window energy rating: A windows energy rating is determined by how efficient it is in terms of thermal losses and solar heat gains.

Thermal Insulation: Each window type is given a u-value which determines how good the glass is at retaining heat, the lower the value the better the performance.

Effect on eliminating internal condensation: To eliminate condensation we use a combination of high performance glass and a warm edge spacer bar.

Optimum solar heat gain: The sun is a free energy source, its important to maximise the optimum amount (70-75%) of solar energy that passes through the window without overheating in the summer.

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