



We've made it even easier to achieve the full spectrum of energy ratings.

A B C D E

The Pilkington **energiKare™** range



**PILKINGTON**  
NSG Group Flat Glass Business

## Benefits of the Pilkington **energiKare™** range at a glance.

- Now you can get all your window energy saving solutions in one range, making it easier to achieve better energy ratings in different types of homes.
- A range of sizes and performances are available.
- Improves the energy efficiency of homes, and by doing so, helps reduce energy usage and saves money on heating bills.
- Windows containing Pilkington **energiKare™** glazing can help to qualify for use of the Energy Saving Recommended logo, an Energy Saving Trust initiative backed by government.
- By choosing a product from the Pilkington **energiKare™** range, rest assured you have the reassurance of Pilkington quality, a reputable company and brand you know you can trust.
- Home Information Packs (HIPs) have become a reality, requiring everyone selling their home to produce an Energy Performance Certificate, rating the house energy efficient on a scale between A and G. Installing energy efficient products like Pilkington **energiKare™** will contribute to improved energy performance and should be a positive factor for anyone selling a house.

## Pilkington **energiKare™** Classic & Pilkington **energiKare™** Plus

	Outer Pane	Cavity	Inner Pane	Light Transmittance (%)	Outside Reflectance (%)	Centre Pane U value (U <sub>g</sub> W/m <sup>2</sup> K)	Total Solar Heat Transmittance (g value) %
Typical IGU	Optifloat	16mm air	K Glass	75	18	1.7	72
energiKare Classic	Optiwhite	16mm argon	K Glass	76	18	1.5	78
	Optiwhite		K Glass OW	78	18	1.5	79
energiKare Plus	Optiwhite	16mm argon plus warm edge spacer bar	K Glass	78	18	1.5	78
	Optiwhite		K Glass OW	78	18	1.5	79

Above determined in accordance with EN410 and EN673. Assuming 90% gas fill.

*NB. Benefit of warm edge spacer bar technology in energiKare Plus would be reflected in overall window U value performance.*

## Pilkington **energiKare™** Triple

Outer Pane	Cavity	Middle Pane	Cavity	Inner Pane	Light Transmittance (%)	Centre Pane U value (U <sub>g</sub> W/m <sup>2</sup> K)	Total Solar Heat Transmittance (g value) %
Optiwhite	12mm argon	K Glass T	12mm argon	K Glass	64	1.0	66
Optiwhite	16mm argon	K Glass T	16mm argon	K Glass	64	0.8	66
Optiwhite	12mm argon	K Glass OW T	12mm argon	K Glass OW	67	1.0	68
Optiwhite	16mm argon	K Glass OW T	16mm argon	K Glass OW	67	0.8	68
Optiwhite	12mm krypton	K Glass OW T	12mm krypton	K Glass OW	67	0.7	68

Above determined in accordance with EN410 and EN673. Assuming 90% gas fill.

## Pilkington **energiKare™** Legacy

Product	Light Transmittance (%)	Outside Reflectance (%)	Centre Pane U value (U <sub>g</sub> W/m <sup>2</sup> K)	Total Solar Heat Transmittance (g value) %
Pilkington Spacia™	78	13	1.4	67

# Pilkington **energiKare**™

## The family that's at home anywhere.

### The Pilkington **energiKare**™ range

The expanded family of Pilkington **energiKare**™ products lets you get all your energy saving requirements from one source. From new homes to older traditional buildings, you can now provide better energy ratings in a wide range of different properties.

### Help to save money and protect the environment

More and more people are worried about the dual problems of climate change and the increasing costs of heating their homes. And, of course, you know all about the government regulations concerning the energy-efficiency of windows. Pilkington **energiKare**™ makes it easier to meet both the regulations and the needs of homeowners. The range offers higher energy efficiency than modern glazing choices with alternative options for different properties.

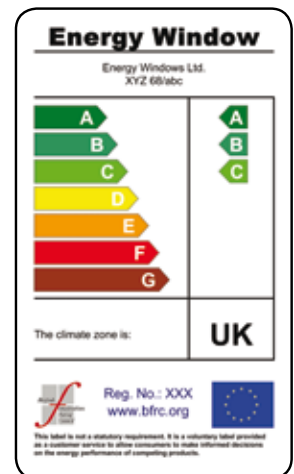
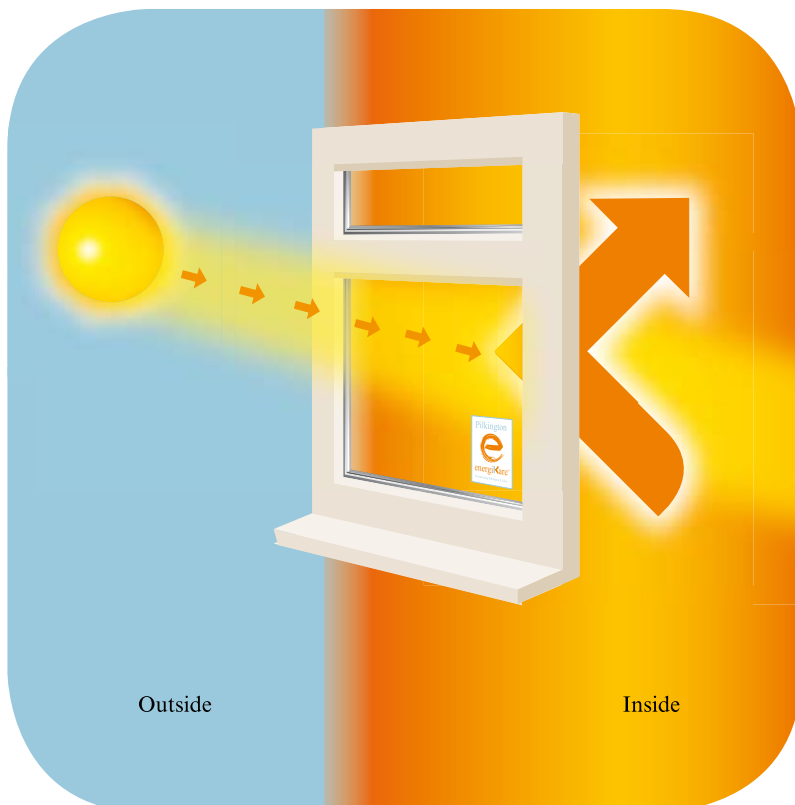
### How it works\*

Pilkington **energiKare**™ reduces the amount of heat lost through windows and allows more heat from the sun in, an effect known as solar gain. Pilkington **energiKare**™ achieves this because it contains two special types of glass:

- Pilkington **K Glass**™, the UK's best selling low-emissivity glass which reduces heat escaping from homes.
- Pilkington **Optiwhite**™ is a special 'extra-clear' type of glass. It increases the degree of solar heat gain and makes homes feel warmer by using the free heat from the sun.
- Filling the double glazed unit with argon gas or using a warm edge spacer bar stops further heat escaping from homes.

### Window Energy Ratings explained

The Window Energy Rating System measures the efficiency of the complete window including the frame to produce a single number. It's based on a similar European Union system for domestic appliances and is a simple way to compare the energy efficiency of alternative products. With the launch of the new Pilkington **energiKare**™ family, all window energy ratings can now be achieved.



\*For information on how Pilkington **energiKare**™ Legacy works please see website for more details.

## The new Pilkington **energiKare™** family.

### Pilkington **energiKare™** Classic

The original Pilkington **energiKare™** unit. This is capable of achieving a minimum C Window Energy Rating in most framing systems.

- Pilkington **K Glass™** and Pilkington **Optiwhite™** IGU with either an argon gas filling or a warm edge spacer bar.

- Cost effective solutions that meet all current building regulations and expected minimum compliance for 2010, also eligible for the 'Energy Saving Recommended' badge from the Energy Saving Trust.



- Twice as energy efficient as modern double glazing.



Pilkington **energiKare™** Classic with argon gas filling or warm edge spacer bar

Pilkington **energiKare™** Plus with argon gas filling and warm edge spacer bar

Pilkington **Optiwhite™** (outer pane)

Pilkington **K Glass™** (inner pane)

Spacer bar



### Pilkington **energiKare™** Plus

This is an upgrade from Pilkington **energiKare™** Classic and can achieve a Window Energy Rating of A or B, depending on the framing system.

- Exceeds current and future government regulations, providing the optimum thermal insulation option.
- Uses a combination of argon gas fill and warm edge spacer bar, can incorporate the new Pilkington **K Glass™** OW if a higher rating, or if a brighter appearance is required.



## Pilkington **energiKare™** Triple

The choice for the best possible window energy rating performance and highest levels of energy efficiency in low or zero carbon new homes. These high performance triple-glazed units optimise the balance between U-values and g-values to maximise energy efficiency.

- A unit comprising two panes of Pilkington **K Glass™** and an outer pane of Pilkington **Optiwhite™** with argon gas fill.
- Very low U-values combined with high solar gain give optimal energy efficiency.
- Suitable for low and zero carbon homes as well as more traditional new build properties.
- Capable of meeting the requirements of the Code for Sustainable Homes, now and in the future without the need for soft coat options.
- Exceeds BFRC WER A rating and Passiv Haus requirements.

- Designed to achieve increased solar gain and high SAP scores, allowing larger glazed areas without compromising the energy efficiency of new homes.
- Use of Pilkington **Optiwhite™** and Pilkington **K Glass™** OW further improves solar gain and light transmission.



## Pilkington **energiKare™** Legacy

Using advanced Pilkington **Spacia™** technology, this is the world's first commercially-available vacuum glazing. It allows the manufacture of extremely thin glazing which can be fitted in old style fine frames, maintaining the original appearance of older traditional buildings.



- Thermal performance of modern double glazing in the same thickness as single glass, offering the opportunity to improve energy efficiency in historic buildings.
- Four times better thermal insulation than single glazing resulting in lower heating bills.
- Suitable as a replacement for single-glazing in old frames, retaining the appearance of older traditional buildings and meeting the requirements for conservation areas.
- Suitable for other applications where use of thinner, low-weight glazing is desirable, such as sliding box sashes.
- Also offers good acoustic performance for lower interior noise levels.
- Reduced levels of internal condensation.

This publication provides only a general description of the product. Further, more detailed information may be obtained from your local Pilkington Building Products supplier. It is the responsibility of the user to ensure that the use of this product is appropriate for any particular application and that such use complies with all relevant legislation, standards, code of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington, 'energiKare', 'Optiwhite', 'Optifloat', 'Spacia' and 'K Glass' are trademarks of Nippon Sheet Glass Co. Ltd.

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CE marking confirms that a product complies with its relevant harmonised European Norm.  
The CE marking label for each product, including declared values, can be found at [www.pilkington.com/CE](http://www.pilkington.com/CE)



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