



Choose Pilkington **energiKare™** for all the support and benefits of a trusted name.

 **Pilkington energikare™**  
energy efficient glazing



**PILKINGTON**  
NSG Group Flat Glass Business

## Why are energy efficient windows so important to your customers?

You'll probably know that the amount of energy we waste has been linked to climate change. And you'll definitely know how much it costs to heat a home. But your customers may not be fully aware just how much difference the type of glass used in double glazing can have on the energy efficiency of their homes, or that not all double glazing is the same.

By installing Pilkington **energiKare™** glazing in your windows, you'll be helping your customers to reduce the amount of energy they use, do their bit for the environment and save money on their heating bills. So promoting energy efficient windows incorporating Pilkington **energiKare™** to your customers makes sense for both of you.

- We've made compliance with the scheme much simpler with units meeting Building Regulation thermal requirements, provided they include any of our range of Pilkington **K Glass™** options and Pilkington **Optiwhite™** - so they can be customised with gas fill, warm edge spacer and a choice of glass type to suit you and your customers.
- By including our new soft coat Pilkington **K Glass™ S** and hard coat Pilkington **K Glass™ OW**, as well as the original Pilkington **K Glass™**, you can achieve any WER from A to C in any of the main frame types.
- Latest figures confirm that Pilkington **K Glass™** is still the most well known brand of low-emissivity glass, with consumer awareness of 64% in our most recent survey.
- It still comes with all the support you need, free of charge promotional materials, technical and commercial support, and a well known website to generate leads.

Now with Pilkington **K Glass™ S** you can easily achieve A rated windows.

## Why Pilkington **energiKare™**?

Our glazing unit has been around for more than 5 years, helping to make homes warmer and customers happier. Originally introduced as an easy way to meet Building Regulations using WERs and to help reassure homeowners using the familiar A-G coloured labelling, it's as good today as it's always been – in fact it's better.

*The amount of energy saved by changing the glazing is proportional to the area of windows in the house and the volume of the building. Illustrated savings are based on a new house with approximately 13m<sup>2</sup> of windows*

### With Pilkington **energiKare™** less heat escapes



Pilkington **energiKare™** makes a huge difference to the energy efficiency of windows

## How does Pilkington **energiKare™** make windows more energy efficient?

Replacing single glazing with Pilkington **energiKare™** can reduce the amount of energy lost through windows by at least 90%. Depending on the size of the house, by upgrading your glazing to Pilkington **energiKare™** enough energy could be saved to:

- Run an LCD computer screen for 43,500 hours, which is equivalent to nearly 5 years of continuous use.
- Make over 34,000 cups of tea
- Run an "A+" rated fridge freezer for 6.6 years



Certification mark

## Doesn't all double glazing save energy?

Pilkington **energiKare™** is twice as energy efficient as uncoated double glazing. The Window Energy Rating (WER) scheme was put in place to help make choosing windows easier for consumers. By making it similar to the system that is applied to consumer goods such as washing machines, fridges, freezers and light bulbs, they can easily understand your offering.

Using Pilkington **energiKare™** means that you have a product that will meet current Building Regulations Part L 2010 and expected improvements in 2013 and 2016. If a window is rated B or above it may also apply to be part of the 'Energy Saving Recommended' scheme. All very reassuring to householders considering changing their windows.

**Don't forget.** You can now offer Pilkington **energiKare™** glazing as a glass replacement option for customers whose windows you installed before 2002 with uncoated double glazing.



## So how does Pilkington **energiKare™** work?

Pilkington **energiKare™** reduces the amount of heat lost through windows and it also allows more heat (energy) from the sun in through the glass – this effect is known as solar gain. As solar gain is heat from the sun, it's 'free of charge' and available all year round.

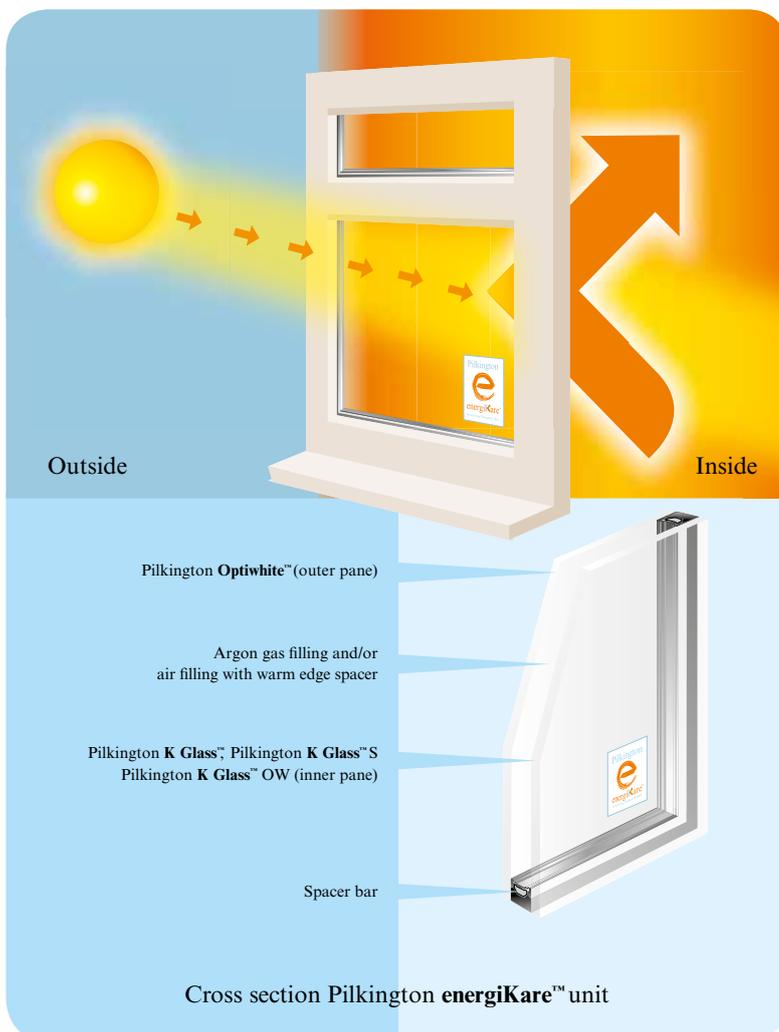
Pilkington **energiKare™** contains two special types of glass:-

- Pilkington **Optiwhite™** a special 'extra-clear' type of glass. It increases the degree of solar heat gain helping to make a home feel warmer without the need to turn up the heating.

And one of the following from the Pilkington **K Glass™** range, the UK's leading low-emissivity glass:

- Pilkington **K Glass™**
- Pilkington **K Glass™ OW**
- Pilkington **K Glass™ S**

Filling the double glazed unit with argon gas or using a warm edge spacer enables you to choose your preferred route to reducing the amount of heat escaping from the window.



## The wider Pilkington **energiKare™** product range

### 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. For further information visit [pilkington.co.uk/triple](http://pilkington.co.uk/triple)

### Pilkington **Spacia™**

Using advanced Pilkington **Spacia™** technology, this is the world's first commercially-available vacuum glazing. It allows the manufacture of extremely thin high quality glazing which can be fitted in old style fine frames, maintaining the original appearance of older traditional buildings, and is equally suitable for new build. For further information visit [pilkington.co.uk/spacia](http://pilkington.co.uk/spacia)



*Image provided by  
Princedale Eco Haus Ltd*

Pilkington **energiKare™** Triple



Pilkington **Spacia™**

## Energy Saving Recommended

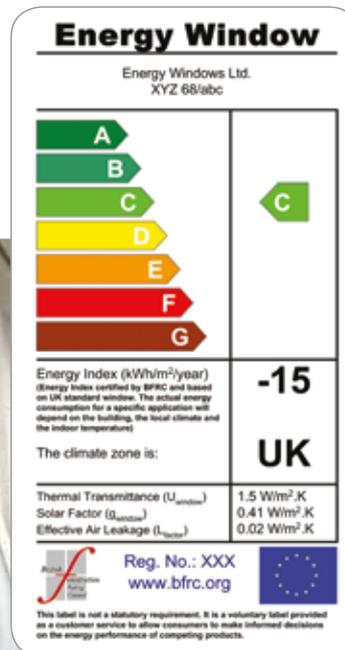
Energy Saving Recommended (ESR) is an Energy Saving Trust initiative backed by Government. Windows achieving band B and above are also eligible for the “Energy Saving Recommended” status from the EST. Therefore, if your windows achieve a WER of B or above, you will be able to use the ESR logo to reassure your customers that the windows you are installing are particularly energy efficient.

Proud supporters of



## Understanding Window Energy Ratings

The Window Energy Rating system measures the efficiency of the complete window and 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 competing products. Pilkington **energiKare™** helps windows achieve high levels of energy efficiency, from a minimum C rating up to A rating in any frame type, which satisfies the current building regulations (Part L 2010) with options to enable you to meet potential updates in 2013 and 2016.



## Pilkington **energiKare™** Technical Performance

Inner Pane	Cavity	Outer Pane	Light Transmittance (%)	Outside Reflectance (%)	Centre Pane U value (Ug W/m <sup>2</sup> K)	Total Solar Heat Transmittance (g value) %	Pilkington <b>energiKare™</b> unit
Pilkington <b>Optifloat™</b>	12 mm air	*Pilkington <b>Optifloat™</b>	0.82	0.15	2.9	0.78	No
Pilkington <b>K Glass™</b>	16 mm argon	Pilkington <b>Optiwhite™</b>	0.76	0.18	1.5	0.78	Yes
Pilkington <b>K Glass™ OW</b>	16 mm argon	Pilkington <b>Optiwhite™</b>	0.78	0.18	1.5	0.79	Yes
Pilkington <b>K Glass™ S</b>	16 mm argon	Pilkington <b>Optiwhite™</b>	0.81	0.12	1.2	0.75	Yes
Pilkington <b>Spacia™</b>	0.2 mm vacuum glazing	Pilkington <b>Spacia™</b>	0.78	0.13	1.4	0.67	Yes

\*Standard double glazing

For more information on Pilkington **energiKare™** Triple visit [pilkington.com/spectrum](http://pilkington.com/spectrum)

## Pilkington **energiKare**™ Features & Benefits

Features	Benefits
<b>Branding &amp; promotion</b>	
Branded Pilkington <b>energiKare</b> ™ label on every Insulating Glass Unit (IGU).	Confidence of knowing it contains IGU make up recommended by us.
Value added, differentiated premium product.	Improve your business profitability by meeting consumer demand. Offering an energy-efficient glazing system that will help homeowners reduce their energy usage from a brand they know and trust.
Support of ongoing promotional activity.	Stimulates more demand.
Utilising glass from the Pilkington <b>K Glass</b> ™ range.	The UK's leading low-e glass range.
Utilising Pilkington <b>Optiwhite</b> ™	Higher light and solar heat transmission than standard float glass. Toughens at similar settings to clear float glass and usually no toughening equipment changes are required.
<b>Product performance</b>	
High light transmission through the use of Pilkington <b>Optiwhite</b> ™	Interiors are brighter and there's less of a need for lighting during the day.
The Pilkington <b>energiKare</b> ™ range allows the flexibility to achieve the highest BFRC Window Energy Rating (WER) of band A in all framing types.	Windows rated B and above are eligible to apply for Energy Saving Recommended status within the Energy Saving Trust.
IGUs containing products from the Pilkington <b>K Glass</b> ™ range for optimum U-value.	Helps reduce heat loss.
High solar gain.	Use of Pilkington <b>Optiwhite</b> ™ with Pilkington <b>K Glass</b> ™ benefits from free heat from the sun reduces heating requirements saving energy and money.
Energy efficient.	It is twice as energy efficient as uncoated double glazing - it loses less than half the heat.
Reduces home energy usage.	When compared to single glazed windows being replaced it saves around 20% on home heating bills.
Reduces heat loss.	When compared to single glazed being replaced it reduces heat loss by at least 90%.
<b>Product quality</b>	
Product manufactured only by our own branches or licensed IGU processors.	Customers have reassurance of our expertise.
Reassurance of brand through franchised scheme with full certification checks.	Products are manufactured and supplied according to all necessary national and European standards. Supplied through our own branches as well as independent approved customers. Pilkington <b>energiKare</b> ™ is available through licensed IGU processors and in windows from registered window company partners.
Gas filled units to EN 1279 Part 3.	The high thermal performance argon gas filling meets tight European quality standards and is designed to last the lifetime of the unit.

Features	Benefits
<b>Processor benefits</b>	
Can use standard aluminium or warm edge spacer bar.	Easy to meet requirements for Building Regulations Part L using your existing processing technology.
<b>Homeowner benefits</b>	
<ul style="list-style-type: none"> <li>● It can reduce heating bills by over 20% every year. A typical semi-detached house, upgrading from single glazing could save over £9,000* over the lifetime of the windows.</li> <li>● It can reduce home CO<sub>2</sub> emissions by over 1 tonne each year</li> <li>● Installation certificate available for homeowners free of charge</li> </ul>	<ul style="list-style-type: none"> <li>● It can be used in uPVC, timber and metal framed windows.</li> <li>● It is manufactured to the highest British and European quality standards</li> <li>● It offers the reassurance of Pilkington brand and expertise</li> </ul>

\*Based on Pilkington's assumption of energy prices increasing by 10% per annum. Window lifetime assumed to be 20 years. Please visit [www.pilkington.co.uk/energikare](http://www.pilkington.co.uk/energikare) for more information.



**YOUR LOCAL SUPPLIER:**

This publication provides only a general description of the product. Further, more detailed information may be obtained from your local supplier of Pilkington products. 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.

**Please note that imagery throughout is for illustration purposes only.**



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)



**PILKINGTON**  
NSG Group Flat Glass Business

**Pilkington United Kingdom Ltd**  
Prescot Road, St Helens, WA10 3TT United Kingdom  
Telephone 01744 692000 Fax 01744 692880  
[pilkington@respond.uk.com](mailto:pilkington@respond.uk.com)  
[www.pilkington.co.uk](http://www.pilkington.co.uk)

Sales Aid  
6682 – July 2012