



Pilkington **Insulight™**
Insulating Glass Units for a range of applications.



PILKINGTON
NSG Group Flat Glass Business





Welcome to a world of possibilities

We have been manufacturing and processing glass since 1826. This invaluable experience has enabled us to invest in and develop our ideas into a range of market-leading products.

By combining our unrivalled technical expertise with true innovation, we can offer businesses an extensive choice of outstanding products including high-quality float glass, fire protection, high-performance glass coatings, specialist glass and a range of comprehensive Insulating Glass Units (IGUs). The Pilkington brand has become recognised for quality IGUs, with Pilkington **Insulight™** now utilised in a wide range of domestic and commercial applications.

Pilkington **Insulight™**

Pilkington **Insulight™** is a technically advanced dual-sealed unit meeting British and European standards. It is designed to offer a variety of cavity widths, spacer bar colour and performance options. A selection of dual-seal designs can be incorporated into a wide range of glazing systems and will withstand a number of contrasting environmental factors such as temperature, UV light and moisture vapour.

The unit design has survived severe life testing trials and is fully compliant with BS EN 1279. It is therefore covered by our Pilkington **Insulight™** warranty.

The range comprises of a variety of popular IGU options, each custom made, using multiple panes of glass. The panes, which do not need to be of the same glass type or thickness, can be chosen from the following range of benefits:

- Solar Control
- Thermal Insulation e.g. low-emissivity
- Fire Protection
- Noise Control
- Safety/Security – including toughened laminates and heat strengthened laminates
- Self-Cleaning
- Decorative Effects



The benefits of choosing Pilkington

As one of the world's largest manufacturers of glass and glazing products, it's no wonder so many people trust the Pilkington brand. We offer customers a wealth of experience, flexible and innovative solutions, and unrivalled customer support. With an ongoing mission to deliver exceptional standards across all areas of our business, you'll find safety, quality and service at the forefront of everything we do.

All of which means that whatever your requirements, Pilkington is the perfect choice.

Meeting your high standards

We ensure that all Pilkington products are created to the highest quality and adhere to all of the latest industry accredited standards, including:

- Part L 2010
- Part J (Scotland)
- BS EN 1279
- ISO 14001

Support every step of the way

Whether you're a large multinational or a small local business, we offer unrivalled levels of support to help you achieve your aims:

- A dedicated help desk to answer all your technical questions
- Full access to our complete range of marketing literature
- Loyalty benefits from our exclusive Pilkington **energiKare™** and Pilkington **Activ™** Partner schemes
- Same day quotation service
- Complete glass solutions for every installation and performance requirement
- Health and safety advice and support

Whatever your needs, we can deliver

When it comes to distribution, we apply the same levels of reliability and attention to detail as we do throughout our manufacturing process:

- We strive to meet all of your delivery and service needs
- We use Metal Stillages to organise your glass for delivery, saving you time, manpower and money when it arrives
- Extensive distribution across the UK via our branch network

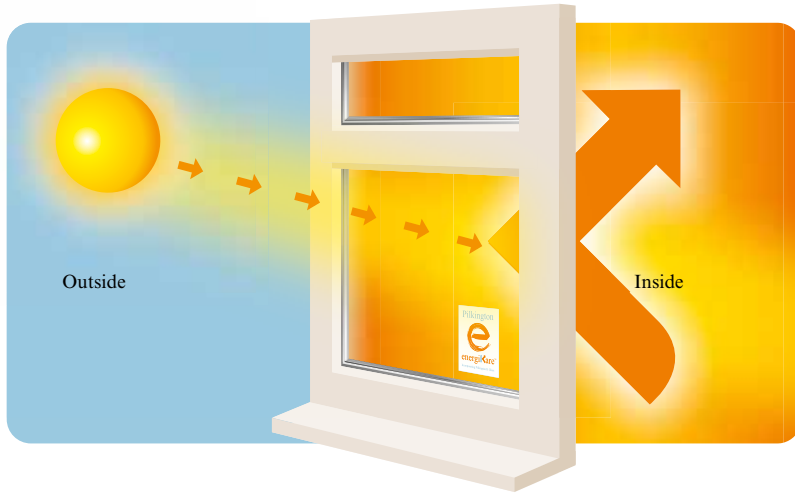


Ordering made easy

We try to make it as quick and as simple as possible to purchase from the Pilkington product range. Leaving you with more time to focus on your business:

- Electronic automatic ordering to save time and reduce errors
- Automatic order confirmations facility
- Electronic invoicing facility
- Online facility, which gives our customers immediate access to orders and invoices
- Direct Debit payment facility



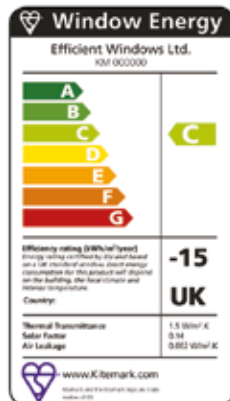
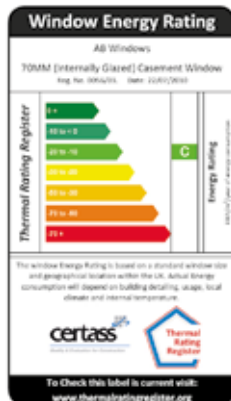
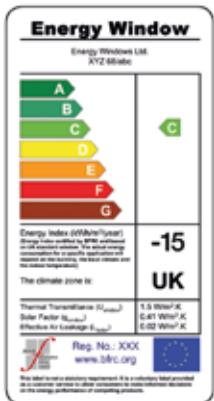


Energy efficiency is easy with Pilkington energikare™

With increasing environmental awareness, more emphasis is being placed on ways to save energy in any building. New regulations have specified minimum requirements for energy efficiency and Pilkington **energiKare™** offers a simple way to meet those requirements.

How does it work?

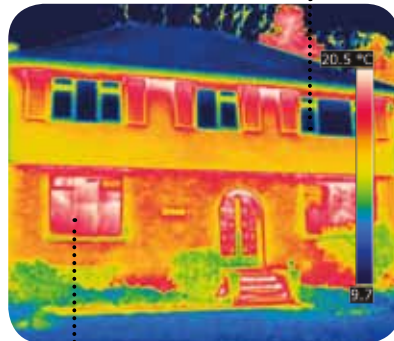
Pilkington **energiKare™** reduces the amount of heat lost, and through the use of Pilkington **Optiwhite™ E**, allows more heat from the sun in through the window. This is known as solar gain and the effects can be felt all year round.



Window Energy Rating system

Windows using Pilkington **energiKare™** are rated C or above as they can significantly reduce the amount of energy required to heat a building. Windows that achieve an A or B rating offer a number of additional benefits. Incorporating low-emissivity glass, such as Pilkington **K Glass™** or Pilkington **K Glass™ OW** in windows, is recognised by the Energy Saving Trust as a means of reducing heat loss; enabling the windows to be eligible for Energy Saving Recommended status – an initiative backed by the Government.

Upstairs windows using Pilkington **energiKare™**



Original single glazed downstairs windows

See the difference for yourself

These images show you just how effective Pilkington **energiKare™** is at reducing heat loss. The upstairs windows are fitted with Pilkington **energiKare™**, and the blue colour shows they're losing very little heat. Compare that with the red colour of the original single glazed windows downstairs, and you can see the difference.

Proud supporters of







Pilkington has the solution

We offer a comprehensive range of glazing products to meet almost every requirement, from the aesthetically pleasing, to the reliably practical. Pilkington provides the kind of flexible, high quality solutions you need to help you run your business efficiently, professionally and successfully.

Pilkington Cervoglass™ for conservatory roof glazing

Pilkington **Cervoglass™** is a shaped IGU designed specifically for conservatory roofs and made at our specialist branches. It is possible to combine a range of different glass types in the unit and create a comfortable environment for your conservatory all year round.

Depending on the requirement, Pilkington can offer the choice of three glazing systems, each with their own specific properties and benefits:

- Pilkington **Cervoglass™** Sun
- Pilkington **Cervoglass Activ™**
- Pilkington **Cervoglass™** Therm

Pilkington decorative unit enhancements

The Pilkington texture glass range provides a choice of 18 different designs, together with our premium range of etched glass. From classic to contemporary, no one offers a bigger choice of original patterns.

The Pilkington range of decorative solutions turns glass from a basic construction material into a means of adding style and elegance to homes. Our Decorative Glass range consists of standard or bespoke designs such as Leaded Lights, Georgian or Cottage bars and translucent for privacy e.g. Pilkington **Optifloat™** Opal.





Getting in touch

We will be pleased to provide information and advice on all enquiries, orders and contracts for Pilkington **Insulight™** units.

visit: www.pilkington.co.uk
email: pilkington@respond.uk.com
phone: 01744 692000

If you require specific information about our wider product range, you'll find it at the following web pages:

www.pilkington.co.uk/decoration
www.pilkington.co.uk/fire
www.pilkington.co.uk/activ
www.pilkington.co.uk/energiKare
www.pilkington.co.uk/cervoglass
www.pilkington.co.uk/insulight

Pilkington **energiKare™** Triple

Surpassing even the best double glazed units, Pilkington **energiKare™** Triple is the ultimate choice for high performance. It allows you to achieve maximum window energy efficiency and exceed all recognised guidelines – now and those envisaged for the future.

The triple-glazed units optimise the balance between U-values and g-values to maximise performance. Each unit comprises two panes of Pilkington **K Glass™**, and an outer pane of Pilkington **Optiwhite™** E with argon gas fill in both cavities. The overall thickness of the unit can be optimised to fit a variety of modern framing and bead dimensions.

As energy performance requirements tighten, windows with triple glazing will achieve the necessary levels of performance. Pilkington **energiKare™** Triple offers the highest WER performance, helping new builds, refurbishments and low carbon homes achieve the highest levels of energy efficiency, with a range of alternative glass combinations available.



Pilkington **Spacia™**

Pilkington **Spacia™** is the world's first commercially-available vacuum glazing. With a centre panel U-value of $1.4W/m^2K$, Pilkington **Spacia™** provides a better level of energy efficiency than standard double glazing, but in a unit that is typically only a quarter of the thickness. This brings a new level of thermal performance to older buildings, and opportunities for ultra-thin glazing in new buildings.

Each Pilkington **Spacia™** unit consists of an outer pane of low-emissivity glass and an inner pane of clear float, with a vacuum rather than air or gas in-between. The result is excellent thermal performance from a unit only fractionally as thick as a standard IGU.

These ultra-thin units can fit seamlessly into the original frames of traditional and conservation properties without infringing restrictions or compromising the aesthetics. This helps to preserve the character of our nation's residential and public buildings while lowering their carbon footprints.

Innovative new applications for Pilkington glass



Pilkington **energiKare™**
at Taylor Homes, Scotland

Installer: Scottech Limited

Taylor Homes, the luxury house-builder, partnered with a local window installer Scottech Limited to provide thermally-efficient windows for their prestigious Braidwood development in Lanarkshire. The installation of Pilkington **energiKare™** energy-efficient glass will also help the new homes achieve lower heating bills and reduced CO₂ emissions.



Pilkington **Optiphon™**
at University of East London

*Installer / Manufacturer: Piper Double
Glazing Limited*

Situated beside the Royal Albert Dock in East London and opposite London's City Airport, sound control was paramount when considering a glazing solution for the 850 windows on this new build project for the University of East London. In order to achieve the acoustic performance required, a high performance acoustic laminated glass from the Pilkington **Optiphon™** range was used, and combined in an Insulating Glass Unit with a low-e coated pane to provide both optimum sound reduction and excellent thermal performance.



Pilkington **energiKare™ Triple**
at Lena Gardens, West London

Installer / Manufacturer: Ryder Strategies Europe

To complete the two Passiv Haus retrofit homes in West London, Ryder Strategies Europe manufactured 35 new windows using Pilkington **energiKare™ Triple**. The new units are almost indistinguishable from the original Victorian sash windows to ensure the design blended with the surrounding buildings and met the area's strict conservation rules.



Pilkington **Spacia™**
at Archibald Place, Edinburgh

Installer / Manufacturer: Changeworks

Sustainable energy and historic property experts, Changeworks, installed Pilkington **Spacia™** in a category B listed Georgian tenement for a social housing project. By specifying this glass, Changeworks were able to create an opportunity for improved energy performance where refurbishment of this kind had previously been prohibited by the council.

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.

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



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