





Why low-emissivity glass is good for your comfort, fuel bills and the environment

'Low-emissivity' (low-e) glass is designed to reflect heat back into a building, greatly improving its thermal efficiency whilst also maximising the use of the freely available heat from the sun.

Thanks to its effectiveness, the Pilkington **K Glass**[™] range is the leading energy-efficient low-e glass range in the UK and Ireland.

Using a product from the Pilkington **K Glass**[™] range in your windows creates a more comfortable environment, helps to save money on your fuel bills and also benefits the environment, by reducing CO₂ emissions.

The range comprises:

- Pilkington **K Glass**[™] – the original low-e glass and the UK's favourite thermal insulation product for over 20 years
- Pilkington **K Glass**[™] A – a development of the original Pilkington **K Glass**[™], with improved thermal (low-e) insulation properties
- Pilkington **K Glass**[™] S – offers outstanding energy-efficient glazing with a highly neutral appearance.



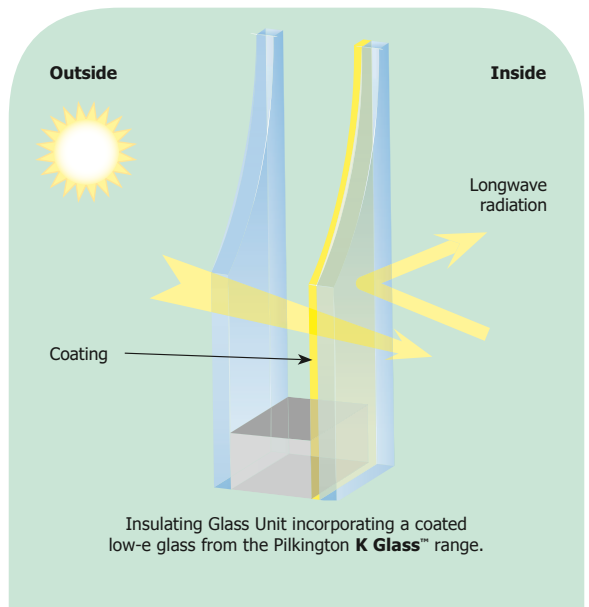
What makes the Pilkington **K Glass™** range the ideal solution?

A glass from the Pilkington **K Glass™** range forms the inner pane of an insulating glass unit, and has a special low-e coating which is a good heat reflector (longwave radiation). This allows less heat to escape through your windows, because it reflects heat from radiators and other internal heat sources back into your home.

At the same time, Pilkington **K Glass™** lets the sun's free heat (known as passive solar gain) through your window contributing to its

energy efficiency. To further benefit from the effect of solar-gain, Pilkington **K Glass™** can be combined with a clear low-iron glass, such as Pilkington **Optiwhite™**, as the outer pane to form an advanced Insulating Glass Unit.

Basically, by using less heat to keep your home warm, less energy needs to be produced – thus lowering the overall levels of greenhouse gases and saving you money.



How will this make a difference to my home?

Reduce your heating bills

Pilkington **K Glass™** not only saves energy and benefits the environment, but also helps save you money over the long term, by reducing your heating bills. Ask for a product from the Pilkington **K Glass™** range or our energy-efficient Insulating Glass Unit known as Pilkington **energiKare™** when buying your new windows.

Eliminate cold spots and condensation

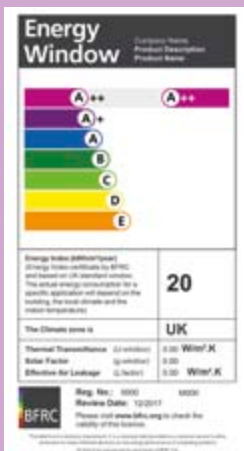
Standard uncoated glass offers poorer insulation, with uncomfortable cold spots close to windows; glazing that incorporates a low-e glass such as Pilkington **K Glass™** offers a total solution. By making the inner pane of your window much warmer, cold spots are reduced and internal condensation is also minimised because the glass surface is warmer.

External condensation

One of the benefits of low-e glass is that it helps to retain more heat in the home. As a result of the improved thermal efficiency the outer glass will be cooler and there may be more occurrences of external condensation than with thermally-inefficient glazing. This is a natural phenomenon and proves your new glazing is energy-efficient!

Perfect for large glazed areas

The Pilkington **K Glass™** range is ideal for windows, conservatories, bi-fold doors, and glass extensions – as thousands of satisfied customers can testify. By ensuring glazed extensions are energy-efficient, you can comfortably use the space all year round.



Window Energy Ratings

The Window Energy Rating (WER) system measures the energy efficiency of the complete window to produce a single number (this corresponds to a grade in the range A++ to G). It makes it easy for you to compare the energy efficiency of windows at a glance, in much the same way as with washing machines and fridges. A glass from the Pilkington **K Glass™** range can help windows achieve higher ratings – up to an A rating in a suitable framing system.





Benefits of the Pilkington **K Glass™** range

- Improves the energy efficiency of your home
- Saves you money on heating bills as less energy is required to maintain a comfortable temperature
- Reduces unsightly internal condensation
- Allows you to extend the glazed areas of your home, ensuring all year round use
- Proven to meet the latest Building Regulations when combined in an Insulating Glass Unit with a suitable window frame
- Helps windows achieve the highest WERs possible
- Can also be combined with other products from our extensive product portfolio, such as self-cleaning glass, solar-control glass and decorative glass
- For enhanced safety and security it can also be toughened to provide impact safety (accidental damage) or laminated for additional security.



Look out for Pilkington **energikare™** at your local window supplier.

Pilkington **energikare™** is our brand name for an Insulating Glass Unit comprising of a low-e product such as Pilkington **K Glass™** or Pilkington **Optitherm™** as the inner pane, combined with either Pilkington **Optifloat™** Clear or Pilkington **Optiwhite™** as the outer pane.

Despite its high light transmittance and neutral appearance, low-e glass may display transient visual effects in certain circumstances. Light-coloured materials, such as net curtains, may appear slightly darker when viewed through the glass. The presence of the low-e coating may also be visible as haze when the glass is viewed under some lighting conditions.

Pilkington **K Glass**™



energy-efficient glass

YOUR LOCAL INSTALLER

This publication provides only a general description of the products. 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 these products is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes 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, "K Glass", "Optiwhite", "energikare", "Optitherm", "Optifloat" and "Optiwhite" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



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