



Pilkington **energiKare™** Advantage
The ultimate in energy-efficient glazing



Pilkington **energiKare™** Advantage

Looking for a revolutionary way to obtain superb energy efficient glazing and indoor comfort? For applications requiring an optimised U_g -value look no further than new Pilkington **energiKare™** Advantage.

Pilkington **energiKare™** Advantage incorporates a new concept in Insulating Glass Unit (IGU) manufacture. By using Pilkington **K Glass™** OW on Surface 4 of the unit and Pilkington **Optitherm™** S1 Plus on Surface 2, an extremely low U_g -value of $0.9 \text{ W/m}^2\text{K}$ can be easily achieved. This is equivalent to triple glazing performance but in a double glazed unit.

How does it work?

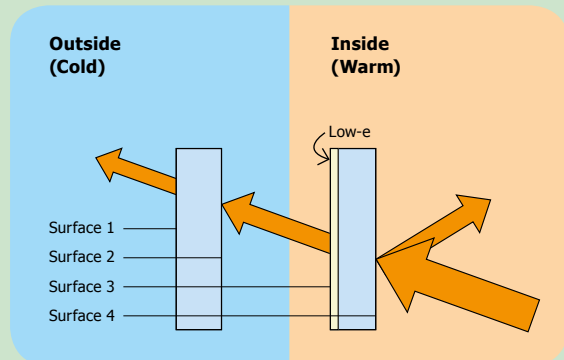
Adding an on-line low-e coating to Surface 4 of an IGU reflects additional infrared heat back into the house, reducing the amount of radiant heat loss through the glass.

By applying low-e coatings on two surfaces of an IGU the centre pane U_g -value can be significantly reduced and thus reduce the amount of heat that is lost. Put simply, triple glazing performance can be achieved with only two panes of glass!

How does Pilkington **energiKare™** Advantage work?

Standard IGU

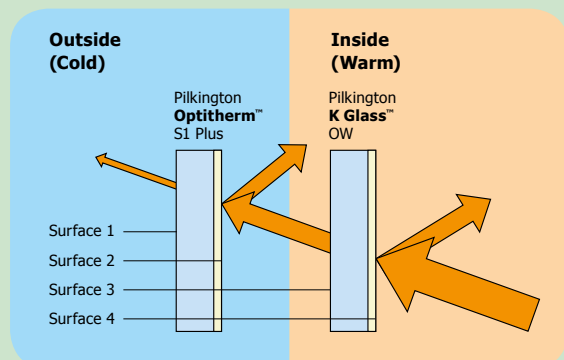
Normally a standard IGU has a low-e coating on Surface 3, however by introducing a coating to Surface 2 and using an additional low-e coating on Surface 4, this new concept provides the ultimate solution in thermal insulation.



Note: additional small reflections, from Surface 2 and Surface 4, not shown.

IGU with Pilkington **energiKare™** Advantage

The Pilkington **K Glass™** OW coating on Surface 4 reflects room heat back inside which reduces the radiant heat loss and improves the overall insulation of the IGU.



Less heat emitted from Surface 2 and Surface 4.

KEY



Long wave radiation

Double-Glazing with the performance of Triple-Glazing

A significant benefit for window installers, fabricators and homeowners is that our new Pilkington **energiKare™** Advantage provides superior thermal performance without investing in the additional time, cost and raw materials to produce triple glazing.

- No additional raw materials required
- No additional capital investments necessary
- Easily integrated into current fabrication process
- Lighter construction
- Can use existing profiles
- Superior thermal insulation
- Low U_g -value
- Highly durable
- Can be toughened

Cleaning Guidelines

Pilkington **energiKare™** Advantage is slightly different in construction to other IGUs as it has a coating on Surface 4. Pilkington **K Glass™** and Pilkington **K Glass™** OW have a very thin, durable, pyrolytic coating on one surface which requires a different cleaning procedure compared to plain, non-coated, float glass.

For further information, please consult our additional 'Cleaning Guidelines' or alternatively visit www.pilkington.co.uk/energikare email pilkington@respond.com or contact our **Customer Contact Centre 01744 692000**.

Where to use Pilkington **energiKare™** Advantage

- New-build housing
- Refurbishment projects
- Upgrading existing double glazing

The Pilkington **energiKare™** range comprises energy-efficient options to help customers, using WER or U_g -value to meet current building regulations.

A Pilkington **energiKare™** unit comprises an outer pane of Pilkington **Optiwhite™** or Pilkington **Optifloat™**, and an inner pane from either the Pilkington **K Glass™** or Pilkington **Optitherm™** range.



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", "energiKare", "Optiwhite", "Optifloat" and "Optitherm" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.

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The Declaration of Performance for each product, including declared values, can be found at www.pilkington.com/CE



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