



Pilkington **energiKare™** Advantage

The ultimate in energy-efficient glazing

Triple glazed performance in a double glazed unit



Pilkington **energiKare™** Advantage

Are you looking for a revolutionary way to obtain superb energy efficient-glazing and indoor comfort? Then look no further than Pilkington **energiKare™** Advantage which 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 – making it ideal for refurbishment projects.

How does it work?

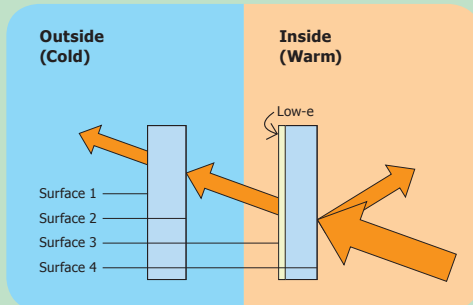
This concept works by using two low-e (low emissivity) coatings in an IGU which both reflect heat back into the room and reduce the amount of radiant heat loss through the glass.

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

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

Standard IGU

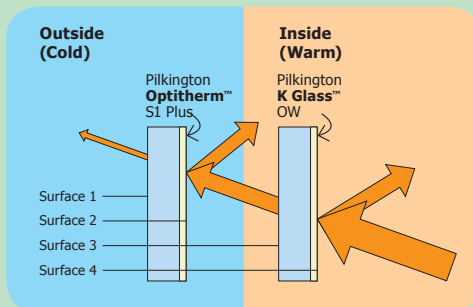
A standard double glazed unit has one low-e coating on Surface 3. However by introducing a coating to Surface 2 and using an additional low-e coating on Surface 4, the ultimate solution in thermal insulation is achieved.



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 more room heat back inside which reduces the radiant heat loss and improves the overall insulation of the IGU.



KEY



Heat flow/measure of heat loss

Heat reflected back into the room by Surfaces 4 and 2.

Double-glazing with the performance of Triple-glazing

Cleaning Guidelines

Pilkington **energiKare™** Advantage is slightly different in construction to other IGUs as it has a coating on Surface 4 (the internal surface).

Therefore a little more care is needed when cleaning the inside surface. Abrasive cleaning agents and sharp edges should not be used as these can leave marks on the coating that can be difficult to remove. We also recommend if anything (other than water) is splashed onto the surface, it should be cleaned immediately and not allowed to dry. Please refer to cleaning guidelines.

For routine cleaning any standard propriety brand can be used.

For further information, please consult our additional 'cleaning guidelines' or alternatively visit www.pilkington.co.uk/energikare

Where to use Pilkington **energiKare™** Advantage

- Refurbishment projects
- Upgrading existing double glazing
- New build



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

**Due to print limitations imagery is for illustration purposes only.
For exact colouration, please request a sample from your local supplier.**

Images supplied by Tsiantar Architects.



CE marking confirms that a product complies with its relevant harmonised European Norm.

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



Made in the UK



Pilkington United Kingdom Limited

Registered office: European Technical Centre, Hall Lane, Lathom, Nr Ormskirk, Lancashire L40 5UF

Telephone 01744 692000 Fax 01744 692880

pilkington@respond.uk.com

www.pilkington.co.uk