



Pilkington **energiKare™** Legacy



**PILKINGTON**  
NSG Group Flat Glass Business

# Pilkington **energiKare**™

The family that's at home anywhere.

## Pilkington **energiKare**™ Legacy

The expanded family of Pilkington **energiKare**™ products lets you get all your glass energy saving requirements from one source. From new homes to older traditional buildings, you can now provide better energy ratings in a wide range of properties. Pilkington **energiKare**™ Legacy provides similar energy efficiency performance as a standard unit, but in a much thinner profile, so it can be used in slim frames – perfect to maintain a property's original appearance.

## The importance of energy efficient glazing

Advances in technology have made windows a significant contributor to the energy efficiency of new homes. To help preserve the character of our nation's buildings, restrictions on use can prevent certain properties from moving away from energy inefficient single glazing. So whilst these properties look great, they carry a heavy price in terms of heating costs and carbon footprint. Pilkington **energiKare**™ Legacy provides a hitherto unknown level of window energy efficiency for older properties.



## How it works

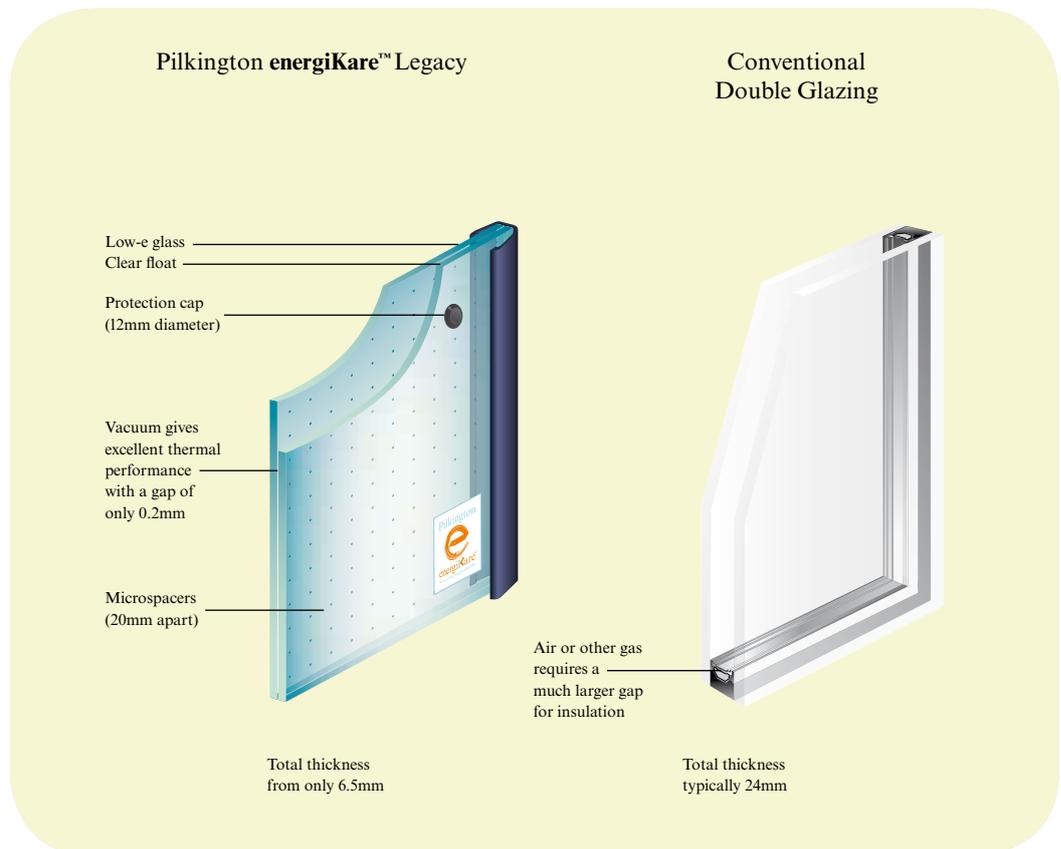
Pilkington **energiKare**™ Legacy utilises advanced Pilkington **Spacia**™ technology. This consists of an outer pane of low-emissivity glass and an inner pane of clear float, with a vacuum rather than air or gas in between. The result is excellent thermal performance from a unit only fractionally as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

## Protection cap

The vacuum creation process in Pilkington **Spacia**™ results in a hole in one of the panes, located 50mm from the glass edge. This hole is covered by a small permanent cap (12mm diameter), which must remain on the glass surface and should be glazed towards the inside of the building. This can be positioned in any corner of the pane.

## Microspacer grid

With an individual diameter of only 0.5mm, this grid ensures that the two glass panes are kept a fixed distance apart.



Note: Microspacers only visible on close inspection.

## A new level of performance for older buildings.

Pilkington **energiKare™** Legacy utilises advanced Pilkington **Spacia™** technology to provide the world's first commercially-available vacuum glazing. It provides a similar level of energy efficiency as modern 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 slim glazing in new buildings.



- The thermal performance of modern double glazing in the same thickness as single glass, offering the opportunity to improve energy efficiency in older traditional buildings.
- A cost effective method of improving the energy efficiency of older homes where glazing choice is restricted or where the original frames are a desirable feature.
- Pilkington provide an extended warranty to your installer. Ask your installer for maintenance guidelines.
- Four times better thermal insulation than single glazing, meaning lower heating bills.
- Suitable as a replacement for single-glazing in original frames, to retain the appearance of older traditional buildings and meet the requirements of conservation areas.
- Suitable for other applications where use of thinner, low weight glazing is desirable, such as sliding box sashes.
- Greater comfort, as cold spots close to the window are reduced.
- Offers good acoustic performance for lower interior noise levels.
- A range of non-rectangular shapes, for flexibility with original frames.
- Proven solution; successfully used in Japan for over a decade.
- Offers reduced levels of internal condensation compared to single glazing.



Image courtesy of Lumen Rooflight.

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Product	Actual thickness (mm)	Light Transmittance (%)	Outside Reflectance (%)	Centre Pane U value ( $U_g$ W/m <sup>2</sup> K)	Solar		Total Solar Heat Transmittance (g value) %
					Direct Transmission (%)	Reflection (%)	
6mm Pilkington <b>Spacia™</b>	6.5 ± 0.1	78	13	1.4	62	17	67

Max size: 2,400mm x 1,350mm Min size: 350mm x 200mm.

The above table is determined in accordance with EN410 and EN673.

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. Pilkington, 'energiKare' and 'Spacia' are trademarks of Nippon Sheet Glass Company Limited.

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



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