



- Improves energy efficiency
- The ideal choice to reduce energy consumption
- Proven to meet the latest Building Regulations when combined in an insulating glass unit with a suitable window frame
- Makes double glazing as effective as triple glazing
- Allows you to stay comfortable at a lower thermostat setting, so you save on your heating bills
- Reduces unsightly internal condensation
- Allows you to extend the glazed area of a building without increasing heat loss
- Helps windows achieve the highest Window Energy Ratings possible



energy saving trust™

When investing in replacement windows, low emissivity glass, such as Pilkington **K Glass™**, is recognised by the Energy Saving Trust as significantly reducing heat loss. It can help windows achieve the Window Energy Rating level C that they need to obtain Energy Saving Recommended status.

Energy Efficiency is an Energy Saving Trust Initiative backed by Government.



To find out more about Pilkington **K Glass™** including prices and available framing systems, contact your local window or conservatory installer.

YOUR LOCAL INSTALLER

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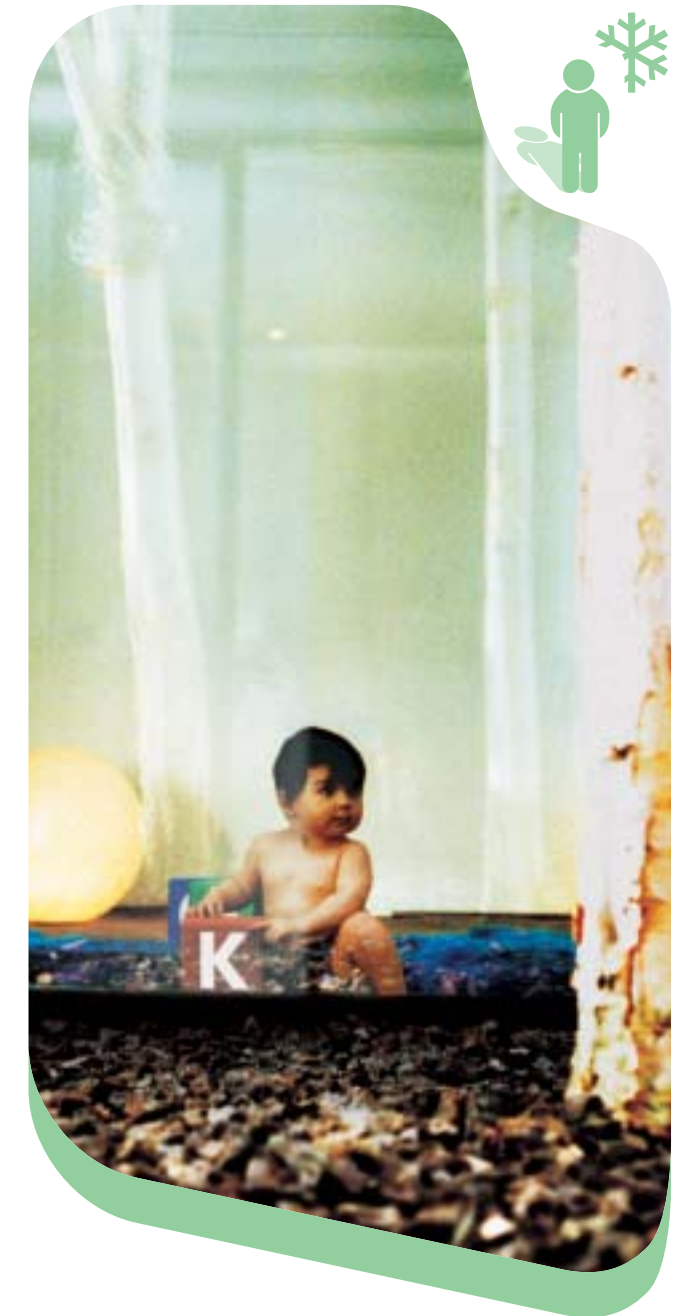
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Pilkington **K Glass™**



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Why the Government insists you have energy efficient windows

In recent years, a great deal of importance has been placed on damage to the environment, and in particular the harmful effects of ‘greenhouse’ gases.

As part of the Kyoto agreement, the Government has committed to reduce the amount of these gases the UK produces. One way has been through stricter Building Regulations concerning energy efficiency.

‘Low emissivity’ (low E) glass such as Pilkington **K Glass™** is designed to reflect heat back into a building, greatly improving its thermal efficiency and also maximising the use of the available heat from the sun, thereby helping to meet these new regulations.

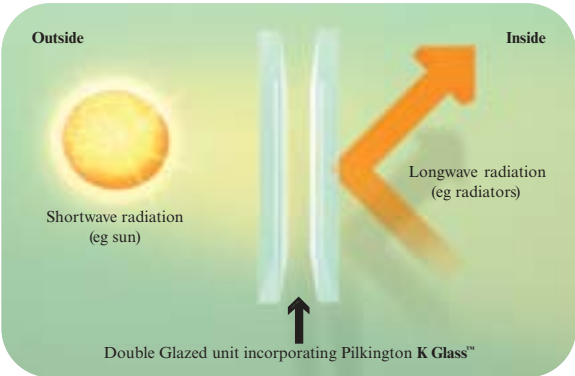
Thanks to its effectiveness, Pilkington **K Glass™** is the leading low E glass in the UK and Ireland.



What makes Pilkington K Glass™ the ideal solution?

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

Pilkington **K Glass™** usually forms the inner pane of a double glazing unit, and has a special ‘low emissivity’ (low E) coating which is a good reflector of long wave radiation (heat). This allows less heat to escape through your windows, because it reflects heat from fires and radiators back into your home. At the same time Pilkington **K Glass™** lets the sun’s heat through your window contributing to its energy efficiency. This free heat from the sun is known as passive solar gain and Pilkington **K Glass™** offers the UK’s leading performance in this aspect. So whilst offering positive benefits for the environment, this also has great benefits for you.



Windows incorporating Pilkington **K Glass™** allow heat from the sun through and reflect heat from fires and radiators back inside, making it easier to keep houses warm.

Benefits

Save on your heating bills

Pilkington **K Glass™** not only saves energy and vital natural resources, but also saves you money over the long term.

Its unique properties and superior insulation keep your home warmer, which means you can run your heating system for a shorter period and still remain just as comfortable – thus saving on your heating bill.

So make sure you ask for Pilkington **K Glass™** in your windows when you buy them. It’s the easy way to stamp out wasted energy.

Eliminates cold spots and condensation

Whereas ordinary glass offers poor insulation, with uncomfortable cold spots close to windows, insulating glass units (IGUs) incorporating Pilkington **K Glass™** offer a total solution.

By making the inner pane of your window much warmer, cold spots are eliminated – giving you more usable floor space.

And because it’s warmer, the glass reduces the internal condensation, which is normally produced when warm, moist air comes into contact with a cold surface, such as conventional glass.

Perfect for conservatories

Pilkington **K Glass™** is the ideal choice for a conservatory too – as thousands of satisfied customers can testify.

Better insulation and no cold spots mean it will typically keep an unheated conservatory comfortable for a greater part of the year than ordinary double glazing – so you can make the most of your conservatory all year round.

The glass can also be toughened to provide impact safety, laminated for additional security and impact safety or combined in an insulating glass unit with other products such as Pilkington **Activ™** self-cleaning glass.

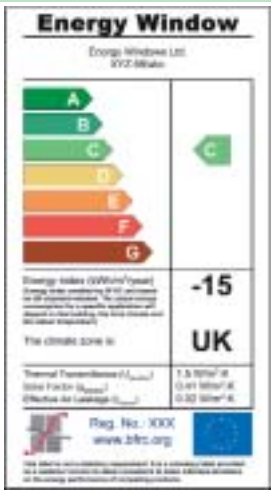
A neutral appearance

Pilkington **K Glass™** has high light transmission and appears virtually the same as clear float glass. In certain circumstances, all low emissivity coatings may produce transient visual effects. In oblique lighting the coating may look like a transparent film or produce a haze, i.e. a cloudy look to the surface. When light coloured objects such as net curtains are placed close to the glazing they will look slightly darker. To maintain consistency of appearance we recommend that replacement windows containing Pilkington **K Glass™** are not placed next to windows containing clear glass. Your window installer can advise you.

Pilkington **K Glass™** should not be used as single glazing.

Note: Don’t forget to look out for the Pilkington **K Glass™** sticker to check for authenticity.

Window energy ratings



The new Window Energy Rating system measures the energy efficiency of the complete window and frame to produce a single number, and is based on a similar European Union system for domestic appliances, allowing easy comparison between competing products. Pilkington **K Glass™** helps windows achieve higher ratings. The regulations in England and Wales now allow a window energy rating to demonstrate compliance with Part L. Pilkington **K Glass™** can help to achieve up to an A rating in suitable framing systems.



Trust Pilkington **K Glass™**.
Simply look at the hard facts.

There's been a lot of talk
lately about energy efficiency and glass...

Part L, Window Energy Ratings, solar gain and so on. But whatever you've heard, you can be certain that Pilkington **K Glass™** remains the right choice for you and your customers. The table overleaf shows you how, like soft coat glass, it easily meets and exceeds all the latest requirements – plus how it's easier to handle, toughen and process. Add to that the strength and support of the Pilkington brand, and you've every reason to carry on using Pilkington **K Glass™**. And that's a fact.



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Hard Coat	vs	Soft Coat
Q: Can I be sure of meeting UK Building Regulations?		
A: Yes. Pilkington K Glass™ easily meets the regulations, just as it always has, in both new build and replacement windows. Best of all, whatever changes are made to the regulations, it should continue to meet them in future too.		A: Yes. In terms of thermal insulation soft coat glass meets regulatory requirements, even though its solar gain performance is poorer than Pilkington K Glass™ .
Q: Can I achieve the highest WERs?		
A: Yes. The new Window Energy Ratings are no problem for Pilkington K Glass™ , as it can achieve the same performance as soft coat glass in typical windows. Add in superior solar gain performance, and it can achieve even better WERs, right up to Class A.		A: Yes. Soft coat low E glass can achieve the same grade of WERs as Pilkington K Glass™ .
Q: How does the coating affect appearance?		
A: Hardly. All coated glass (whether hard or soft coat) reduces light transmission a little and causes a slight colour haze when viewed under laboratory conditions. To the naked eye though, in a double glazed window, it isn't noticeable. In fact, our competitors have had to re-touch photographs to falsely show any noticeable difference – simply because there isn't any.		A: Ditto. As with hard coat glass, there is a small reduction in light transmission and a slight colour haze. Additionally though, soft coat glass coatings change during toughening making process control more difficult, giving colour-match difficulties and increasing process losses and costs.
Q: Should I change to soft coat?		
Why would you want to? Pilkington Pilkington K Glass™ can do everything a soft coat glass can do, plus it's easier to process and handle.		A: Yes. If you want to waste time and money. Changing to soft coat would mean buying new equipment to process it. As the coating is 'soft', it also needs more careful handling, takes longer to toughen, has a limited shelf life and is likely to lead to higher replacement and reglazing costs.

Pilkington **K Glass™** Benefits

- The UK's leading low E glass
- Superior solar heat gain for higher performance
- The market's one and only brand recognised by homeowners
- Can be toughened and laminated
- Can be glazed in same way as float glass
- No specific sealants necessary
- Easy handling and processing
- No shelf life limitations
- Readily available from stock
- Exhaustively tested to British and European standards
- Free support materials

The values quoted are based on an insulating glass unit with 4mm Pilkington Optifloat™ Clear outer pane, argon (gas-filled) cavity and an inner pane of 4mm Pilkington K Glass™ .		4/16/4
Light	Transmittance	74%
	Reflectance	17%
Solar Radiant Heat	Direct Transmittance	60%
	Reflectance	16%
	Absorptance	24%
	Total Transmittance	72%
Shading Coefficient	Total	83%
U value (W/m²K)	16mm	1.5 W/m²K

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