

The forecast will  
always be clear and cool.

Pilkington Activ™ Range  
Self-cleaning and solar control glass  
for conservatories.



**PILKINGTON**  
NSG Group Flat Glass Business

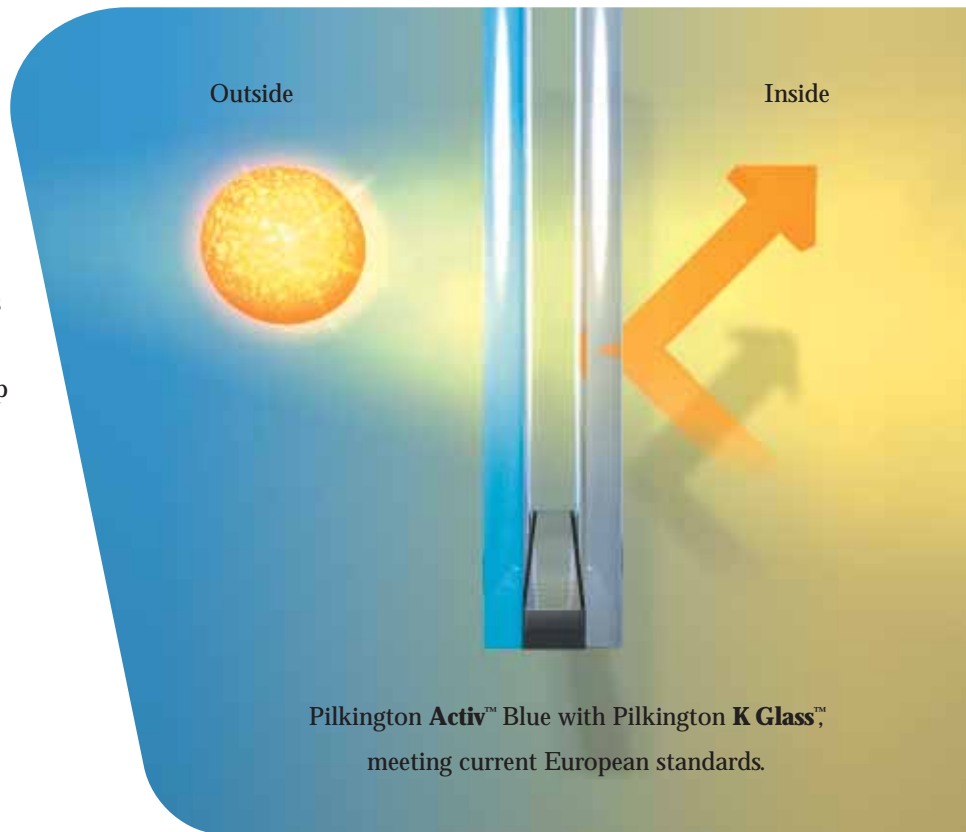
## Thermal insulation.

When it comes to conservatories, we think you should be able to enjoy yours, comfortably, all year round. That's why we suggest choosing an insulating glass unit that combines Pilkington **Activ™** Blue or Pilkington **Activ™** Neutral with a low E glass such as Pilkington **K Glass™**. That way, dual solar control and thermal insulation can help your conservatory maintain a comfortable temperature throughout the year.

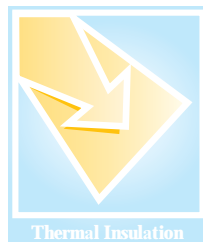
### Thermal insulation - keeping the heat in.

Pilkington **K Glass™**, which usually forms the inner pane of a double-glazing unit, has a special low emissivity coating to help reduce the amount of heat that escapes through your windows. This is particularly important for conservatories in winter, when it can be difficult to maintain a comfortable temperature. The special energy-saving coating on Pilkington **K Glass™** lets the sun's rays through, but reflects heat from fires and radiators back into your home, saving energy and reducing your heating bills.

*Note:* Pilkington **Activ™** can be combined with a vast range of other Pilkington products to help with other issues e.g. security, sound insulation, safety, climate control.



Reduced Energy Costs



Thermal Insulation

### Benefits of thermal insulation.

- Low E glass makes double glazed insulating glass units as effective as triple glazing.
- Allows you to increase the glazed area of a building without increasing heat loss.
- Allows you to stay comfortable whilst using less energy.
- Reduces unsightly internal condensation.
- Helps to save energy, reducing heat loss by up to 45%.

The table below gives a simple comparison between standard double glazing, polycarbonate, and high performance Pilkington **Activ™** conservatory options.

	Normal double glazing	25mm Polycarbonate	4mm Pilkington <b>Activ™</b> Blue 16mm Argon filled cavity* 4mm Pilkington <b>K Glass™</b>	4mm Pilkington <b>Activ™</b> Blue 16mm Argon filled cavity* 4mm Pilkington <b>Optitherm™</b> S4	4mm Pilkington <b>Activ™</b> Neutral 16mm Argon filled cavity* 4mm Pilkington <b>K Glass™</b>	4mm Pilkington <b>Activ™</b> Neutral 16mm Argon filled cavity* 4mm Pilkington <b>Optitherm™</b> S4
Light	81%	68%	49%	52%	42%	44%
Total Solar Radiant Heat Transmittance, g	0.76	0.55	0.41	0.39	0.43	0.39
U-Value	2.7	1.75	1.5*	1.2*	1.5*	1.2*
Self-cleaning plus Solar Control on exterior surfaces	✗	✗	✓	✓	✓	✓

\*Based on 90% gas fill.

## Conservatories – bringing the outside in.

“ Pilkington **Activ**<sup>™</sup> has made such a difference to the way I spend my time in the conservatory. With Pilkington **Activ**<sup>™</sup> Blue in the roof – I rarely get too hot – and seldom have to clean the glass either. Brilliant!”

Mrs R Shelmerdine,  
Stranraer.

A conservatory is more than just an extension to your house. It can be somewhere to enjoy the peace and tranquillity of the garden no matter what the weather is doing, a place to entertain or much needed extra space for the children to play. But whatever your reason for adding a conservatory to your home, it is a significant investment, and choosing the right glass will only add to its value.



1. The window is exposed to daylight



4. Rainwater hits window and sheets down glass



2. Daylight triggers the Pilkington **Activ**<sup>™</sup> coating



5. Dirt is washed away by rain



3. Reaction loosens organic dirt



6. Window is left clean

## Self-cleaning clear and blue glass – a world first from Pilkington.

Pilkington **Activ**<sup>™</sup> is the world's first self-cleaning glass. It's basically the same as conventional glass, except for a unique dual action coating. It works in two ways: first it uses daylight to break down organic dirt (such as bird droppings) and then it uses rain to wash the dirt away. Pilkington **Activ**<sup>™</sup> also dries off faster leaving the glass clean and with reduced streaks, which gives you beautifully clear views and makes it ideal for all the windows in the conservatory.

Pilkington **Activ**<sup>™</sup> Blue and Pilkington **Activ**<sup>™</sup> Neutral combine the benefits of self-cleaning with solar control performance, making them the perfect choice for hard to reach places that are difficult to clean, which also require solar control such as conservatory roofs.

## Frequently asked questions.

### What is self-cleaning glass?

Pilkington **Activ™** is a Pilkington **Optifloat™** glass with a special coating on the outside that has a unique dual action. Once exposed to daylight, the coating breaks down any organic dirt and then causes rainwater to 'sheet' down the glass to wash the dirt away. The coating has been designed to last as long as the glass itself. The coating is durable and will not need reapplying.

### Where can Pilkington **Activ™** be used?

Almost any exterior application, such as windows, conservatories, façades and glass roofs. It is especially useful for inaccessible windows where organic dirt normally collects, where cleaning can be difficult, such as skylights. Pilkington **Activ™** works best where both sunlight and rain can reach the glass, although it does not need direct sunlight to work effectively.

*Note:* The minimum recommended angle is 10 degrees from horizontal, so that rainwater can flush off loosened deposits.

### Will my windows ever need cleaning?

We cannot say that your windows will never need cleaning – that depends on the amount of dirt and the amount of rain the glass in your windows receives. We can say that Pilkington **Activ™** reduces the amount of maintenance required. If cleaning is necessary – such as during long dry spells or if your windows are heavily soiled – it will be much less frequent and much easier than with conventional glass, either by gentle hosing to replicate rainfall or using a soft cloth and warm soapy water.

### Does it work on cloudy days and at night?

Pilkington **Activ™** needs only a small amount of UV radiation to activate the coating – so it works on even overcast days and throughout the night.

## Conservatory roofs: glass vs. plastic

- Glass provides a better view than plastic (polycarbonate), which can also become very dirty, very quickly.
- Due to its reduced maintenance requirements, self-cleaning glass is safer for hard to reach places such as conservatory roofs.
- Glass, especially Pilkington **Activ™** Blue and Pilkington **Activ™** Neutral, provide improved solar control.
- A glass roof is much quieter than polycarbonate in rain and hail.

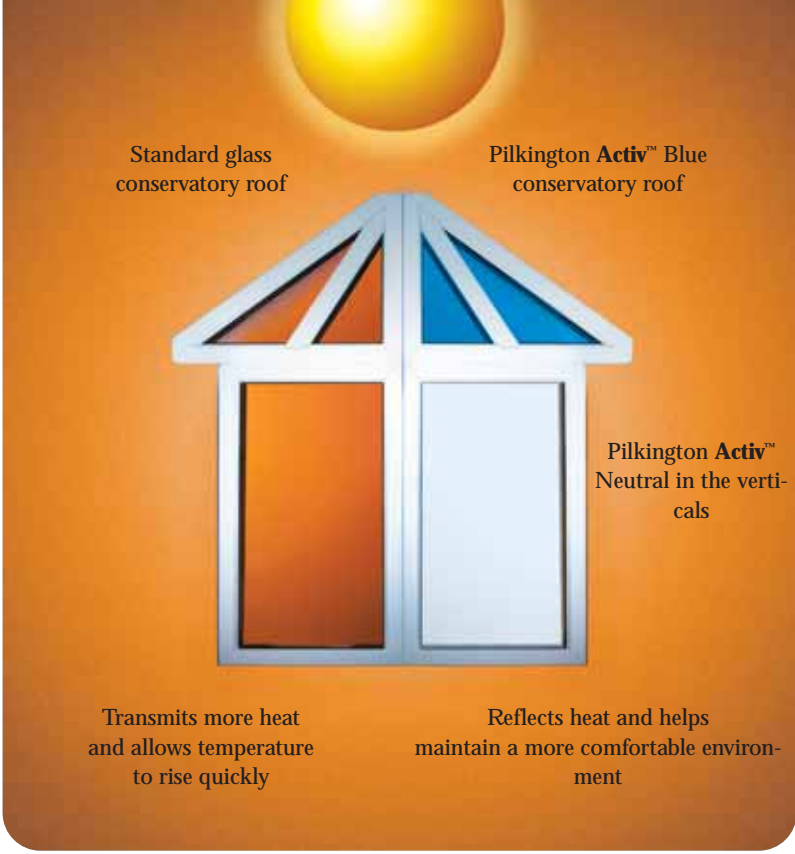
### Pilkington **Activ™** range comprises:

Pilkington **Activ™** Clear – a clear self-cleaning glass.

Pilkington **Activ™** Blue – an attractive blue tinted glass that combines self-cleaning with solar control.

Pilkington **Activ™** Neutral – a neutral coloured glass that combines self-cleaning with solar control. It's coating has a slightly darker appearance, which helps reduce the xtransmission of light and heat from the sun.





## Solar control – reducing the sun’s heat.

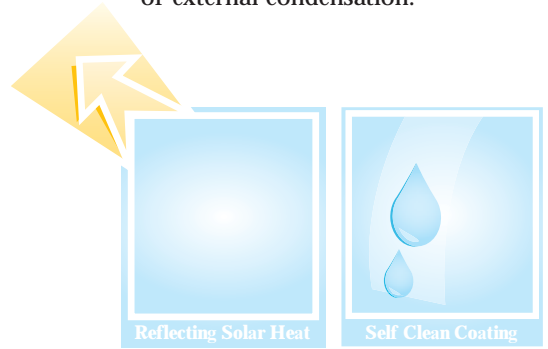
Pilkington **Activ™** Blue and Pilkington **Activ™** Neutral combine the revolutionary benefits of a self-cleaning coating with solar control and good light transmission.

In summer months, glass with solar control can help prevent heat build up by significantly reducing the amount of heat allowed to pass into your conservatory.

“Cleaning my conservatory has always been a problem – especially with the tree sap in the summer. Having **Pilkington Activ™** installed in the windows and roof means that now, I can sit back and relax – and enjoy the weather.”  
Mr T Lunt, Chelmsford.

## Benefits of Pilkington **Activ™** Blue and Pilkington **Activ™** Neutral.

- Combines solar control and self-cleaning properties.
- Helps reduce heat build up – further ventilation may also be required.
- Its self-cleaning properties work on cloudy days and during the night.
- Easily cleaned during dry spells by hosing down.
- Self-clean coating lasts the lifetime of the glazing.
- Offers excellent aesthetics.
- It allows good light transmittance.
- Using any of the **Pilkington Activ™** range of products helps reduce the appearance of external condensation.



## Installer/Stockist



This publication gives a general description of the product and materials. It is the responsibility of the users to ensure that their use is appropriate for any particular application and that such application complies with all relevant local and national legislation, standards, codes of practice and other requirements.

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