



The Pilkington **Activ™** Range
Self-cleaning and solar control glass.
The clear choice for conservatories.



Conservatories – bringing the outside in.

A conservatory is more than just an extension to your house. It can be somewhere to enjoy the peace and tranquillity of the garden, whatever the weather. A place to entertain in, or an extra space for the children to play in. But whatever the reason for adding a conservatory to your home, it is a significant investment, and choosing the right glass will only add to its value.

What is self-cleaning glass?

Pilkington **Activ™** 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 tree sap) and then uses rain to wash the dirt away.

Pilkington **Activ™** also dries faster, leaving the glass clean and with less streaks. Making it the perfect solution for conservatory roofs and windows.

The durable coating never needs reapplying, and will last as long as the glass does.

Pilkington **Activ™** range comprises:

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

Pilkington **Activ™** Bronze – a tinted self-cleaning glass that combines self-cleaning with solar control.

Pilkington **Activ™** Blue – a tinted self-cleaning glass that combines self-cleaning with medium solar control.

Pilkington **Activ SunShade™** Neutral – a coloured glass that combines self-cleaning with superior solar control.

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

Note: Pilkington **Activ SunShade™** Neutral is slightly grey in appearance.





Where can Pilkington **Activ**[™] be used?

Pilkington **Activ**[™] can be used on any exterior application, such as windows, conservatories, façades and glass roofs. It is especially useful for difficult to clean windows and skylights where organic dirt normally collects. Pilkington **Activ**[™] works best where both sunlight and rain can reach the glass. Although it does not need direct sunlight to work effectively, it does need rain so is not recommended where an overhang shelters the glass.

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

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 even on overcast days and throughout the night.

Will my windows ever need cleaning?

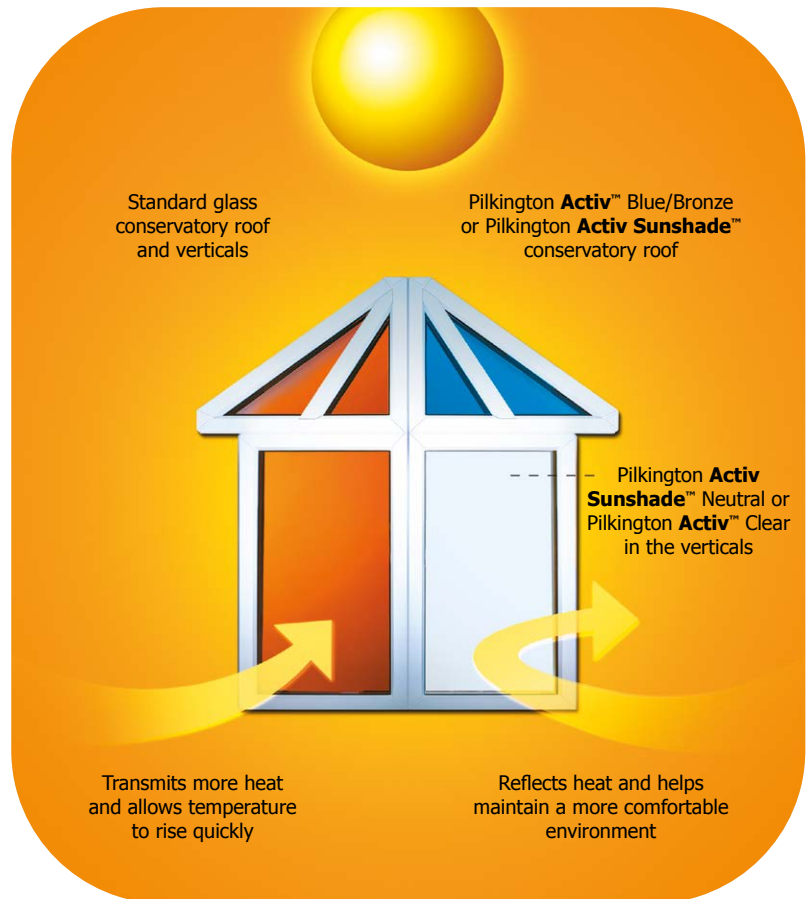
We cannot say that your windows will never need cleaning – that depends on the amount of dirt and the amount of rain the glass in your windows receive. However we can say that Pilkington **Activ**[™] reduces the amount of maintenance required. If cleaning is necessary – such as during long dry spells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



Solar control – reducing the sun's heat.

Pilkington **Activ**™ Blue, Pilkington **Activ**™ Bronze and Pilkington **Activ SunShade**™ 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.



Benefits of Pilkington **Activ**™ self-cleaning glass with solar control.

- Perfect for hard to reach places which are difficult to clean such as conservatory roofs
- Combine solar control and self-cleaning properties
- Help reduce heat build up – when combined with good ventilation
- 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
- Aesthetically pleasing
- It allows good light transmittance
- Using any of the Pilkington **Activ**™ range of products helps reduce the appearance of external condensation

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



Give your conservatory a new lease of life.



You may not realise it but simply replacing your plastic roof with a new glass roof, incorporating Pilkington **Activ™** self-cleaning glass, will have a tremendous effect on the way your conservatory looks, feels and sounds. It will transform your conservatory from a forgotten storage area into a wonderful and usable extension to your home, one that can be enjoyed all year round, come rain or shine.

When fitted with our revolutionary Pilkington **Activ™** glass and our low-emissivity (low-e) Pilkington **K Glass™**, your newly transformed conservatory will be warmer in the winter, cooler in the summer and a lot less noisy when it rains. Even conservatories with old glass roofs will benefit from better thermal insulation and solar control properties. And thanks to the clever self-cleaning capabilities of the glass, you can be sure your beautiful new conservatory roof stays that way.

Conservatory roofs: glass vs. plastic.

- Glass provides a better view than plastic (polycarbonate), which can also become dirty very quickly
- Due to its reduced maintenance requirements, self-cleaning glass is safer for hard to reach places such as conservatory roofs
- Increased energy efficiency for greater comfort and lower heating bills
- Less noise when it rains for a more relaxing and peaceful environment
- Revolutionary self-cleaning glass for a more practical and attractive finish
- Available with solar control for greater comfort during summer months

From this



To this

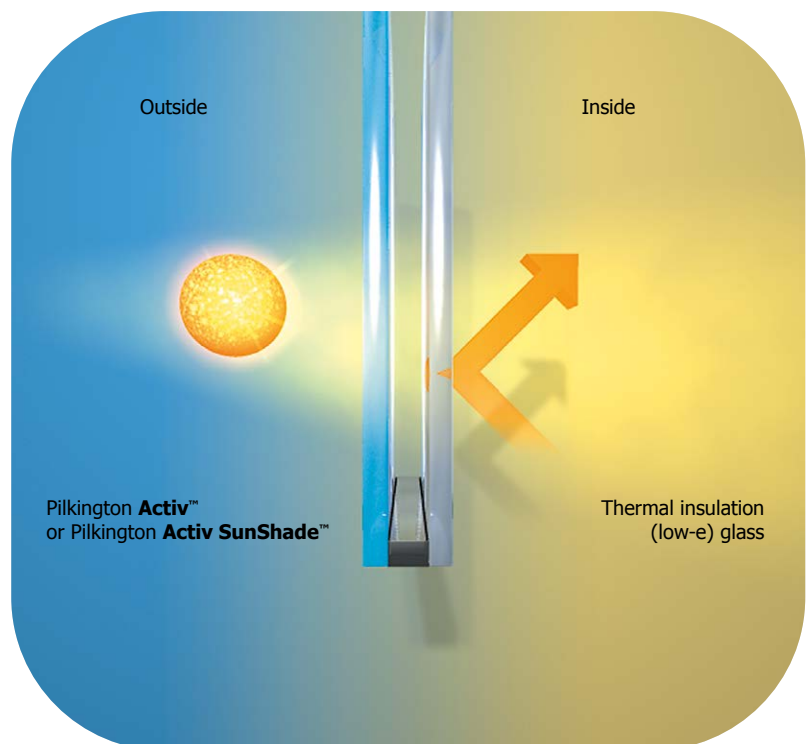


Thermal insulation.

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, Pilkington **Activ™** Bronze or Pilkington **Activ SunShade™** 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-e 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.



Benefits of thermal insulation.

- 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%
- Helps to save money on fuel bills plus: lowers your home's CO₂ emissions

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

| Product | Light Transmittance | Solar Heat Rejection | Colour | U-value (W/m ² K) | Self-cleaning Properties |
|--|---------------------|----------------------|----------|------------------------------|--------------------------|
| Uncoated double glazing 4 mm / 12 mm air / 4 mm | 0.82 | 22% | Clear | 2.8 | N |
| 25 mm polycarbonate | 0.68 | 45% | Clear | 1.75 | N |
| Pilkington Insulight Activ™ (4 mm Pilkington Optitherm™ S1 Plus inner pane, 16 mm 90% argon filled cavity) | | | | | |
| Pilkington Activ SunShade™ Blue | 0.27 | 80% | Blue | 1.0 | Y |
| Pilkington Activ SunShade™ Neutral | 0.42 | 68% | Neutral* | 1.0 | Y |
| Pilkington Activ™ Blue | 0.50 | 67% | Blue | 1.0 | Y |
| Pilkington Activ™ Bronze | 0.49 | 64% | Bronze | 1.0 | Y |
| Pilkington Activ™ Clear | 0.72 | N/A | Clear | 1.0 | Y |

INSTALLER/STOCKIST:

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

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CE marking confirms that a product complies with its relevant harmonised European Norm.
The CE marking label for each product, including declared values, can be found at www.pilkington.com/CE



Pilkington United Kingdom Ltd
European Technical Centre, Hall Lane, Lathom, Nr Ormskirk
Lancashire L40 5UF
Telephone 01744 692000 Fax 01744 692880
pilkington@respond.uk.com
www.pilkington.com/activ