

The Pilkington **Activ™** Range  
The clear choice for conservatories and orangeries.

## Bringing the outside in

A conservatory or orangery 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 or glazed extension to your home, it's a significant investment, and choosing the right glass will only add to its value.





## What is Pilkington **Activ**™?

Pilkington **Activ**™ is the world's first self-cleaning glass. It's basically the same as conventional glass, except for a unique permanent dual action coating. It works in two ways: first it uses daylight to break down organic deposits (such as dirt) 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, orangeries, glass extensions, skylights and windows.

## 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 subtle blue 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 strong blue glass that combines self-cleaning with superior solar control

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

All images in this brochure courtesy of David Salisbury unless otherwise stated.

## Solar control – reducing the sun's heat

The Pilkington **Activ**™ range combines the 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 or orangery.

*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.*

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

Pilkington **Activ**™ can be used on any exterior application, such as windows, conservatories, façades and glass roofs. It's 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 doesn't need direct sunlight to work effectively, it does need rain so isn't recommended where an overhang shelters the glass.

### 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 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's much easier than cleaning conventional glass, either by gentle hosing to replicate rainfall or by using a soft cloth and warm soapy water.

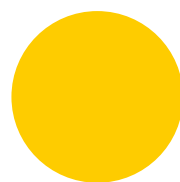
*Note: The minimum recommended angle for a roof containing self-cleaning glass is 10 degrees from horizontal, so that rainwater can flush away loosened deposits.*





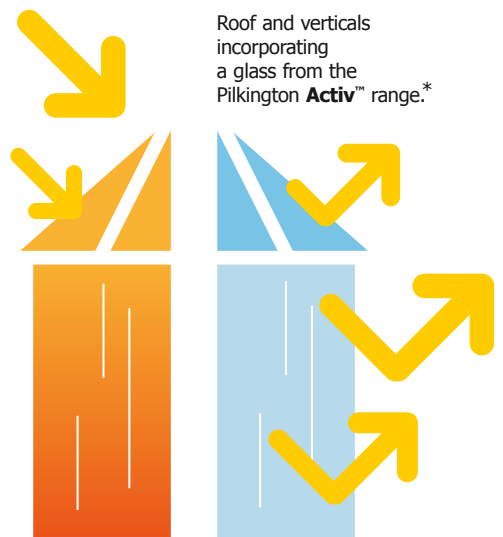
## The benefits of Pilkington **Activ**™ self-cleaning glass with solar control

- Perfect for hard to reach places which are difficult to clean such as conservatory roofs
- Helps to 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



### How it works:

Standard glass in conservatory roofs, verticals and bi-folds transmits more heat creating an uncomfortable environment.



Roof and verticals incorporating a glass from the Pilkington **Activ**™ range.\*

\* Excluding Pilkington **Activ**™ Clear.

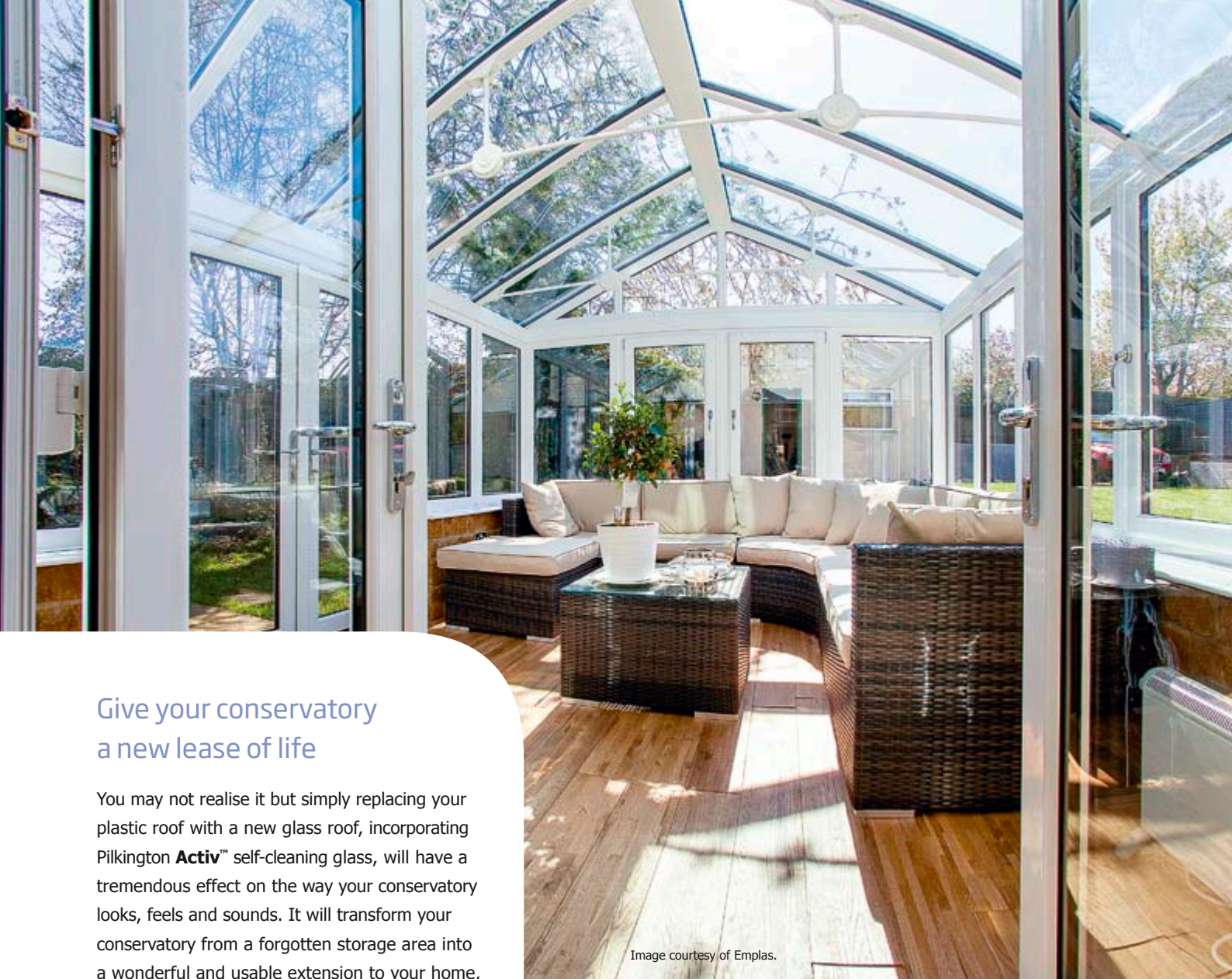


Image courtesy of Emplas.

### 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 a glass from our Pilkington **Activ**™ range with solar control properties, and combined with a thermally efficient glass such as Pilkington **Optitherm**™ S1 Plus, 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.

From this



To this



### 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
- Available with solar control for greater comfort during summer months

## 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 a glass from the Pilkington **Activ**™ range as the outer pane, combined with an inner pane of low-e glass such as Pilkington **Optitherm**™ S1 Plus. That way, the combined properties of both solar control and thermal insulation can help maintain a comfortable temperature throughout the year.

## Thermal insulation - keeping the heat in

Pilkington **Optitherm**™ S1 Plus, 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 **Optitherm**™ S1 Plus allows the sun's rays through, but reflects heat from fires and radiators back into your home, saving energy and reducing your heating bills.

Note – A glass from the Pilkington **K Glass**™ range is also a suitable alternative for the inner pane of the double-glazing unit.

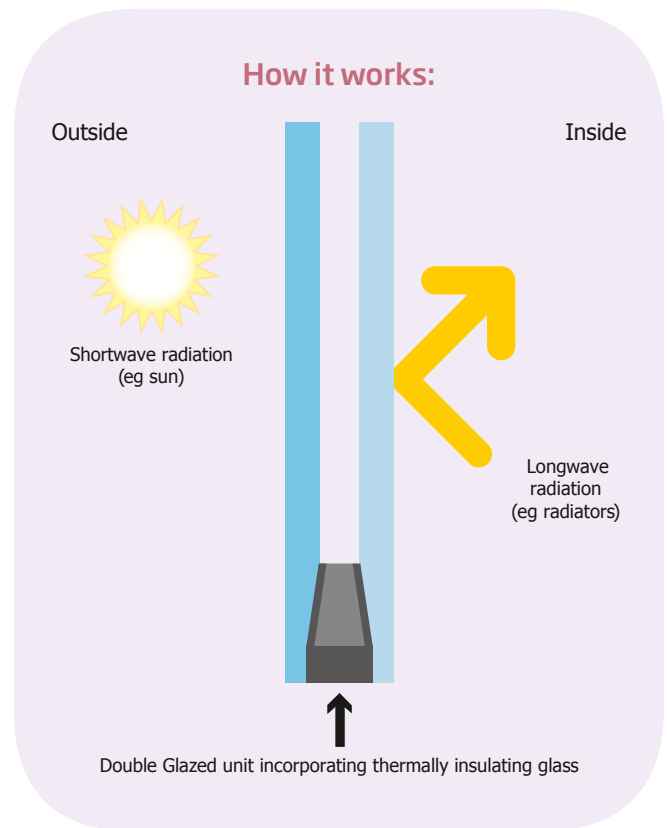
The table below gives a simple comparison between standard double glazing, polycarbonate, and high performance Pilkington **Activ**™ conservatory options.

Product	Light Transmittance	Solar Heat Rejection	Colour	U <sub>g</sub> value [W/m <sup>2</sup> K]	Self-Cleaning Properties
Uncoated double glazing 4 mm / 12 mm air / 4 mm	0.82	21%	Clear	2.8	N
25 mm polycarbonate	0.68	45%	Clear	1.75	N
Double Insulating Glass Unit construction (4 mm Pilkington <b>Optitherm</b> ™ S1 Plus inner pane 16 mm 90% argon filled cavity)					
4 mm Pilkington <b>Activ SunShade</b> ™ Blue	0.18	83%	Blue	1.0	Y
4 mm Pilkington <b>Activ SunShade</b> ™ Neutral	0.37	71%	Neutral*	1.0	Y
4 mm Pilkington <b>Activ</b> ™ Blue	0.42	67%	Blue	1.0	Y
4 mm Pilkington <b>Activ</b> ™ Bronze	0.43	68%	Bronze	1.0	Y
4 mm Pilkington <b>Activ</b> ™ Clear	0.62	N/A	Clear	1.0	Y

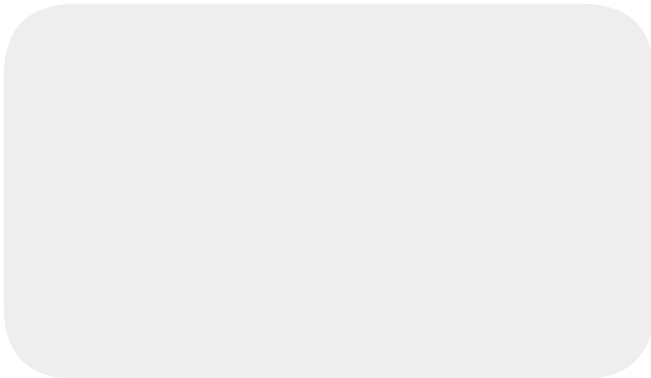
\* Pilkington **Activ SunShade**™ Neutral is slightly grey in appearance.

## 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
- Helps to save money on fuel bills plus: lowers your home's CO<sub>2</sub> emissions



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

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UK CA Marking confirms that a product meets the requirements of its relevant UK-designated standard and can be placed on the market in Great Britain. The UK CA Marking Declaration of Performance for each product can be found at [www.pilkington.com/ukca](http://www.pilkington.com/ukca)



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