

#### The Pilkington **Activ**™ Range

The clear choice for conservatories and orangeries.







# 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**<sup>™</sup> 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.



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**<sup>™</sup> 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<sup>™</sup> 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

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

www.pilkington.co.uk/activ



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.





Image courtesy of Emplas.

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### 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

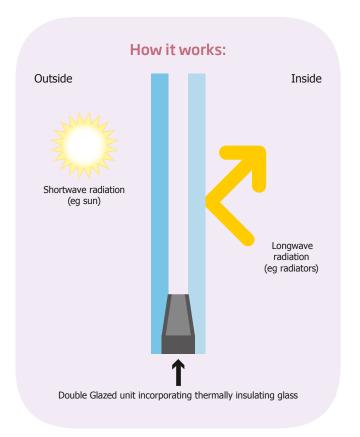
Pilkington **Optitherm**™ S1 Plus, which usually forms the inner pane of a double-glazing unit, has a special low-e coating to help reduce the amount of heat that escapes through your windows. This is particularly important for conservatories in winter, when it can be difficult to maintain a comfortable 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**<sup>™</sup> 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**<sup>™</sup> conservatory options.

#### 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



Product	Light Transmittance	Solar Heat Rejection	Colour	U <sub>g</sub> value [W/m²K]	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	Υ
4 mm Pilkington <b>Activ SunShade</b> ™ Neutral	0.37	71%	Neutral*	1.0	Υ
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	Υ
4 mm Pilkington <b>Activ</b> ™ Clear	0.62	N/A	Clear	1.0	Υ

<sup>\*</sup> Pilkington  $\textbf{Activ SunShade}^{\bowtie}$  Neutral is slightly grey in appearance.



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CE marking confirms that a product complies with its relevant harmonised European Norm.

The Declaration of Performance for each product, including declared values, can be found at www.pilkington.com/CE



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