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.
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.

www.pilkington.co.uk/activ
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.
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.

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

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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.

<table>
<thead>
<tr>
<th>Product</th>
<th>Light Transmittance</th>
<th>Solar Heat Rejection</th>
<th>Colour</th>
<th>U&lt;sub&gt;j&lt;/sub&gt; value [W/m²K]</th>
<th>Self-Cleaning Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uncoated double glazing 4 mm / 12 mm air / 4 mm</td>
<td>0.82</td>
<td>21%</td>
<td>Clear</td>
<td>2.8</td>
<td>N</td>
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<tr>
<td>25 mm polycarbonate</td>
<td>0.68</td>
<td>45%</td>
<td>Clear</td>
<td>1.75</td>
<td>N</td>
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<tr>
<td>Double Insulating Glass Unit construction (4 mm Pilkington Optitherm™ S1 Plus inner pane 16 mm 90% argon filled cavity)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>4 mm Pilkington Activ SunShade™ Blue</td>
<td>0.18</td>
<td>83%</td>
<td>Blue</td>
<td>1.0</td>
<td>Y</td>
</tr>
<tr>
<td>4 mm Pilkington Activ SunShade™ Neutral</td>
<td>0.37</td>
<td>71%</td>
<td>Neutral*</td>
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<td>Y</td>
</tr>
<tr>
<td>4 mm Pilkington Activ™ Blue</td>
<td>0.42</td>
<td>67%</td>
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</tr>
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<td>4 mm Pilkington Activ™ Bronze</td>
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<td>68%</td>
<td>Bronze</td>
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<td>Y</td>
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<td>4 mm Pilkington Activ™ Clear</td>
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<td>Clear</td>
<td>1.0</td>
<td>Y</td>
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</tbody>
</table>

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