Pilkington Activ™ Self-cleaning and Solar Control Glass Range

Pilkington Activ™ Clear
Pilkington Activ™ Blue
Pilkington Activ™ Bronze
Pilkington Activ SunShade™ Blue
Pilkington Activ SunShade™ Neutral
Pilkington Activ™ Glass Range

Pilkington Activ™ the world’s first self-cleaning glass, has been specifically designed for conservatories, conservatory roof replacements and large glazed areas.

The first stage of the cleaning process is "photocatalytic". In this stage the coating reacts with daylight to break down organic dirt.

The second stage is "hydrophilic". Here, instead of forming droplets, rainwater hits the glass and spreads evenly, running off in a "sheet" and taking the loosened dirt with it, also drying quickly without leaving streaks.

Pilkington Activ™ Clear is the original self-cleaning glass used extensively in the UK for more than 10 years. It is the ideal option for areas where only self-cleaning glass is required.

Pilkington Activ™ is now also available with a range of solar control options, ideal for use in conservatories and orangeries, helping to keep internal temperatures cooler and creating a more comfortable environment that can be used all year round.

- Pilkington Activ™ Blue and Pilkington Activ™ Bronze; tinted glass combining self-cleaning and medium solar control properties
- Pilkington Activ SunShade™ Neutral (formally Pilkington Activ™ Neutral) and Pilkington Activ SunShade™ Blue; tinted glass combining self-cleaning properties with superior performance solar-control properties

For optimum self-cleaning and thermal performance, combine glass from the Pilkington Activ™ range with a low-e glass from the Pilkington K Glass™ range in an Insulating Glass Unit (IGU). For outstanding thermal performance Pilkington Optitherm™ S1 Plus, provides a U₉ value of 1.0.

Where to use Pilkington Activ™
- Windows and doors
- Conservatories and orangeries
- Glass roofs
- Replacement conservatory roofs

* Solar control is achieved through the use of absorptance in the body tint of the glass.

** Solar control is achieved through the combined benefits of the body tint with an offline coating on the inside pane of the glass.
Summary

- Pilkington Activ™ Clear – the original self-cleaning glass
- Uses daylight and rainwater to break down and wash away organic dirt from the exterior of the glass
- Works even on cloudy days and during the night
- Easily cleaned during dry spells by hosing down
- The Pilkington Activ™ range can be used in conjunction with a host of other Pilkington products to achieve a variety of benefits such as: privacy, noise control and safety and security
- Pilkington Activ™ can be combined with low-e glass such as Pilkington K Glass™, Pilkington K Glass™ S or Pilkington Optitherm™ S1 Plus for the ultimate performance in conservatory roof and vertical glazing
- Easy to handle, process and stock. Easy to fabricate into IGUs in both annealed and toughened forms. Available in 4 mm and 6 mm
- Pilkington Activ™ coating lasts the lifetime of the glass

Range summary

- Pilkington Activ™ Clear – the original self-cleaning glass
- Pilkington Activ™ Blue and Bronze are attractive tints offering excellent aesthetics combining self-cleaning and solar-control properties
- Pilkington Activ SunShade™ Neutral and Blue combine self-cleaning and high performance solar control properties

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>U₁-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>22%</td>
<td>Clear</td>
<td>2.8</td>
<td>N</td>
</tr>
<tr>
<td>25 mm polycarbonate</td>
<td>0.68</td>
<td>45%</td>
<td>Clear</td>
<td>1.75</td>
<td>N</td>
</tr>
<tr>
<td>Pilkington Insulight Activ™ (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>
</tr>
<tr>
<td>Pilkington Activ SunShade™ Blue</td>
<td>0.27</td>
<td>80%</td>
<td>Blue</td>
<td>1.0</td>
<td>Y</td>
</tr>
<tr>
<td>Pilkington Activ SunShade™ Neutral</td>
<td>0.42</td>
<td>68%</td>
<td>Neutral*</td>
<td>1.0</td>
<td>Y</td>
</tr>
<tr>
<td>Pilkington Activ™ Blue</td>
<td>0.50</td>
<td>67%</td>
<td>Blue</td>
<td>1.0</td>
<td>Y</td>
</tr>
<tr>
<td>Pilkington Activ™ Bronze</td>
<td>0.49</td>
<td>64%</td>
<td>Bronze</td>
<td>1.0</td>
<td>Y</td>
</tr>
<tr>
<td>Pilkington Activ™ Clear</td>
<td>0.72</td>
<td>N/A</td>
<td>Clear</td>
<td>1.0</td>
<td>Y</td>
</tr>
</tbody>
</table>

*Note – Pilkington Activ SunShade™ Neutral has a slightly grey appearance.
Pilkington Activ™ is a durable online coating applied to the surface during float glass manufacture.
Pilkington Activ SunShade™ is a combination of the Pilkington Activ™ “online” coating on surface 1 with an additional “offline” coating on surface 2, which provides superior solar control.

Important note:
The neutral coating on Pilkington Activ SunShade™ Neutral gives a slightly grey appearance which helps reduce transmission of light and heat from the sun.

Note:
Pilkington Activ SunShade™ is a dual coated glass and should be made into an IGU with Pilkington Activ™ on the outside pane (surface 1) and Pilkington SunShade™ on (surface 2) of the outside pane.

The Pilkington Activ™ range must always be processed, installed and maintained in accordance with our specialist Handling and Processing instructions for Pilkington Activ™ (available on our website). For more information on the Pilkington Activ™ range please visit www.pilkington.co.uk/activ
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For exact colouration, please request a sample from your local supplier.

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The CE marking label for each product, including declared values, can be found at www.pilkington.com/CE