Pilkington Activ™ Self-Cleaning Glass

Now there’s a revolutionary new kind of glass that actually uses the power of the sun to clean itself… Pilkington Activ™ Self-Cleaning Glass.

Pilkington Activ™ is manufactured with the same advanced pyrolytic technology used to produce glass panels for electronic and photovoltaic solar cell applications. Applied to clear float glass via on-line chemical vapor deposition, it is an integral part of one surface of the glass, and lasts the entire life of the glass. As a result, Pilkington Activ™ uses daylight which is abundant even on cloudy days to keep windows clean with a two-step process:

1. Pilkington Activ™ actively loosens dirt, and gradually breaks down organic residue with a special PhotoActiv™ surface that uses energy from daylight.
2. When it rains, the water sheets off the Pilkington Activ™ surface, removing dust particles and inorganic dirt so windows dry without spots and streaks.

Under most conditions, natural rain is sufficient to keep the window clean. And in dry weather, a quick spray with the hose will achieve the same results. Pilkington Activ™ dramatically reduces window cleaning, providing crisp, clear views.

The photocatalytic action of Pilkington Activ™ glass (upper) gradually breaks down and loosens organic dirt, while the hydrophilic surface (lower) causes rain to sheet on the glass, leaving a clean exterior with minimal spotting or streaking.

Product Features & Benefits

- Self Cleaning Properties
- Breaks down organic dirt
- Sheets water away
- Never needs re-treating
- Environmentally Friendly
- Color Neutral
- UV Control Properties
- Easily Fabricated
- Saves cleaning time and costs

The proper application of Pilkington Activ™ is with the Pilkington Activ™ surface glazed to the exterior of a building (#1 surface) in either a monolithic or Insulating Glass Unit (IGU). The Pilkington Activ™ surface requires several days exposure to daylight to be activated.

When combined in an IGU with an inboard lite of Pilkington Energy Advantage™ Low-E Glass or Pilkington Solar-E™ Solar Control Low-E Glass (#3 surface), it provides the ultimate energy efficient/low maintenance package in one window.

Nominal Glass Thickness Visible Light Total Solar Energy U-Factor Solar Heat Gain Coefficient Shading Coefficient

<table>
<thead>
<tr>
<th>in.</th>
<th>mm</th>
<th>Glass Thickness</th>
<th>Transmittance %</th>
<th>Reflectance %</th>
<th>Transmittance %</th>
<th>Reflectance %</th>
<th>UV Transmittance %</th>
<th>U.S. Summer Air</th>
<th>U.S. Winter Air</th>
<th>European Argon</th>
<th>Argon</th>
</tr>
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<tbody>
<tr>
<td>3/32 2.5</td>
<td>64</td>
<td>15</td>
<td>15</td>
<td>82</td>
<td>12</td>
<td>50</td>
<td>0.95</td>
<td>1.05</td>
<td>5.9</td>
<td>0.83</td>
<td>0.96</td>
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</tbody>
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In single glazed and insulated glass units, the combination of Pilkington Solar Control and Solar-E™ Solar Control Glass provides a high performance solution for any industry application requiring low-e glass or low-emissivity glazing.

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