Pilkington K Glass™ Range

Pilkington K Glass™
Pilkington K Glass™ A
Pilkington K Glass™ S
For over two decades the Pilkington brand has been the driving force behind the development of energy-efficient glazing. This expertise has been used to strengthen the Pilkington K Glass™ range, which now boasts more choice than ever. So you have even more ways to achieve the Window Energy Rating (WER) you want and to comply with Part L of the Building Regulations, now and in the future.

Each product from the Pilkington K Glass™ range usually forms the inner pane of an Insulating Glass Unit (IGU), and has a special low-emissivity (low-e) coating which is a good reflector of heat (long wave radiation). This allows less heat to escape through windows, as it reflects heat from within the room back into the building. At the same time, low-e glass lets the sun’s heat pass through the windows, thus also contributing to its energy efficiency. This free heat from the sun is known as passive solar gain or g-value. A higher g-value can be achieved when a glass from the Pilkington K Glass™ range is combined with a low-iron glass such as Pilkington Optiwhite™ as the outer pane of an IGU.

The Window Energy Rating (WER) is the Government-backed method of assessing and ranking the energy efficiency of a complete window. Taking into account its U-value, g-value and air infiltration, the scheme allows easy comparison of the energy efficiency of competing windows on a scale of A++ to E with A++ being the best. The energy performance of an IGU or the window itself can be improved in a series of steps to gradually improve the WER band achieved; firstly argon filling improves the U-value, then a low-iron glass such as Pilkington Optiwhite™ as the outer pane improves g-value. The addition of a warm edge spacer bar improves the U-value of the whole window.
Pilkington K Glass™

The original hard coated low-emissivity glass, Pilkington K Glass™ is designed to reflect heat back into a building, greatly improving its thermal efficiency and maximising the use of free heat. Pilkington K Glass™ remains the UK’s best known and most recognisable brand name in both trade and consumer markets.

- On-line coated
- When combined with Pilkington Optiwhite™ can easily achieve a minimum WER C in most frame types
- Highly durable
- Easy to handle and process
- Doesn’t have the shelf life limitations of an off-line coated product
- No edge deletion required

A closer look at the range

Pilkington K Glass™ A

The next generation of on-line coated glass that achieves a WER A rating. Developed from the original Pilkington K Glass™, available in a wide range of sizes and is easy to handle and process.

- On-line coated
- Helps windows achieve WER Band ‘A’ (dependant on frame type)
- Can be toughened easily with the coating facing up or down for throughput benefits
- High light transmission maintains neutrality; avoids the ‘grey’ appearance of competitor hard coat low-e products
- Robust online coating, without shelf-life limitations of an off-line coated product
- No edge deletion required
- Single stock – can be used in annealed or toughened versions
- Easy to handle and process; enables reduced cycle times versus clear float

Pilkington K Glass™ S

Pilkington K Glass™ S, is an off-line high performance, low-e coated option, designed for outstanding energy-efficient glazing. Offering excellent thermal insulation when incorporated within Pilkington energiKare™ IGU, Pilkington K Glass™ S has a highly neutral appearance with optimal g-value, thermal insulation and light transmission to provide the highest WER performance.

- Off-line coated
- The ultimate high performance low-e product
- A highly neutral appearance with optimal solar heat gain
- Helps windows exceed Part L regulations
- Single stock – can be used in annealed or toughened versions
The benefits of using glass from the Pilkington K Glass™ range are easy to see

- The Pilkington brand is trusted and well recognised by consumers
- Increased light transmission reduces the need for artificial lighting
- Suitable for use in PVC-U, timber and aluminium profiles in both new and replacement windows
- Enables householders to reduce energy usage and save money on heating bills
- Helps Governmental targets of reducing CO₂ emissions from homes
- Helps to reduce window drafts, making rooms more usable
- Enables glazed areas of a building to be extended without increasing heat loss
- Reduces unsightly internal condensation
- Keeps conservatories and orangeries more comfortable than standard double glazing
- Single stocked product which is available in annealed form and can be toughened or laminated for safety and greater security
- All products manufactured in St Helens, England

Note:
Pilkington energiKare™ is the brand name given to double glazed units containing any product from the Pilkington K Glass™ or Pilkington Optitherm™ range when combined with Pilkington Optiwhite™ or Pilkington Optifloat™ Clear (as outer pane) that will achieve a WER of at least band C in a given window framing system.

Visit pilkington.co.uk/kglass for further information on our product range.
### Pilkington K Glass™ Range - Comparative Performance in Glazing

<table>
<thead>
<tr>
<th>Outer Pane (4 mm)</th>
<th>Cavity (mm)</th>
<th>Inner Pane (4 mm)</th>
<th>Light Transmittance %</th>
<th>Light Reflectance (external) %</th>
<th>Centre Pane U_1-value [W/m²K]</th>
<th>Total Solar Heat transmittance (g value) %</th>
<th>Pilkington energiKare™ Unit</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>16 mm argon</td>
<td>Pilkington K Glass™</td>
<td>76</td>
<td>18</td>
<td>1.5</td>
<td>75</td>
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<tr>
<td>Pilkington Optifloat™</td>
<td>16 mm argon</td>
<td>Pilkington K Glass™ A</td>
<td>76</td>
<td>17</td>
<td>1.4</td>
<td>75</td>
<td>Y</td>
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<td>16 mm argon</td>
<td>Pilkington K Glass™ S</td>
<td>82</td>
<td>12</td>
<td>1.2</td>
<td>71</td>
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Above determined in accordance with EN410 and EN673. Assuming 90% argon gas fill.

*Varies with frame performance.

### Pilkington K Glass™ Range - a selection of available sizes

<table>
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<tr>
<th></th>
<th>Dimension (mm)</th>
<th>Substance (mm)</th>
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<th>6</th>
<th>6.4</th>
<th>6.8</th>
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<tr>
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<tr>
<td></td>
<td>2440 × 1605</td>
<td>50</td>
<td>---</td>
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<tr>
<td>Standard Stock Sizes</td>
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<td>25</td>
<td>23</td>
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<td>35</td>
<td>23</td>
<td>20</td>
<td>20</td>
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<tr>
<td>Jumbo</td>
<td>6000 × 3210</td>
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<td>10</td>
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Numbers contained in the tables refer to plates per pack.
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