

“Glass is just glass, isn't it?”  
*Well, actually, no. It may all look the same, but glass can perform many different roles to make your home more comfortable, attractive, secure, private or practical. In fact, glass is an excellent alternative to many other materials, such as wood, brick or polycarbonate – it's simply a case of knowing what to ask for. Since choosing your glass is such an important decision, let us help you to get an idea of the different types available, and the possibilities they can open up in your home. Your window company uses Pilkington Insulight™ insulating glass units in their windows. Pilkington Insulight™ can be designed to meet almost any requirement, so have a look at the range of options then ask your window company representative to give you a quotation.*

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 NSG Group Flat Glass Business



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## What do you want the glass in your home to do?

The best way to choose the right glass for your home is by thinking about what you want from it. If, for example, you want to use your conservatory all year round, heat insulating glass will help to keep the heat in; if you live near a busy road, glass can help to reduce the noise; and so on. Here you'll find each type of glass and its main benefits, to enable you to make a more informed decision.

For more information, visit [www.pilkington.co.uk/householders](http://www.pilkington.co.uk/householders)



### Reducing the sun's heat (Solar Control)

Keeping your home at a comfortable temperature depends as much on preventing heat build up in summer as heat loss in winter – particularly in roof spaces and large glazed areas like conservatories. The 'greenhouse' effect can be significantly reduced by using tinted glass or glass with a so called solar control coating. Solar control coated glass is available in clear, for maximum light transmission or a range of attractive blue, green, grey or bronze tints.



### Keeping the heat in (Thermal Insulation)

Glass with a low emissivity (low E) coating greatly reduces the heat escaping through windows, especially in conservatories and roof areas. It makes your home more comfortable, with lower heating bills, no 'cold spots' and less internal condensation. Pilkington **energiKare™** glazing units are even more efficient, by letting more of the sun's heat in and less of your heat out.



### Noise reduction

If you live near a busy road, railway line or under a flight path, you might wish to use glass to reduce the noise to an acceptable level. There are various ways this can be achieved depending on the reduction required including customised insulating glass units and the use of specially laminated glass.



### Safety

Where glass is used overhead, at low level or in doors, the relevant British Standards must be met to protect against accidental human impact. There are two types of safety glass: **Toughened** glass, such as that in the side windows of your car, is up to five times stronger than ordinary glass and breaks into small, safe, granular pieces on impact.

**Laminated** glass similar to that used in the front windscreen of your car, consists of two pieces of glass sandwiching a clear plastic interlayer so it cracks on impact but stays intact, reducing the risk of injury. All the glass types highlighted here are available in safety versions.



### Security

Because laminated glass stays intact on impact it can provide additional protection against deliberate attack such as vandalism or break-in. Laminated glass is available in a range of thicknesses depending on the level of impact resistance you wish to protect from. As with safety glass, security can be provided for all glass types.



### Decorative effect

For privacy, pure style or to allow more light in, decorative glass gives you a whole range of attractive designs. The different types of decorative glass available include: **Patterned** glass, which has a relief pattern such as flowers or leaves molded into the pane itself. **Translucent** glass, which has an opaque finish, allowing light through but providing privacy at the same time. Glass can also be treated to create decorative effects such as etched patterns, bevelling or brilliant cutting. Pilkington **Insulight™** units can incorporate all these effects as well as traditional looks such as leaded lights and Georgian bars.



### Self-cleaning

Self-cleaning glass is ideal for any external application, especially large areas like conservatories or difficult to reach places such as skylights. By continually cleaning itself, self-cleaning glass gives you a clearer view and your windows look cleaner for longer. Pilkington **Insulight Activ™** needs little maintenance, and can be combined with other types of glass for additional benefits such as security or heat insulation or to keep areas cool. To find out more about self-cleaning glass, visit [www.pilkington.com/selfcleaningglass](http://www.pilkington.com/selfcleaningglass)



Building Regulations require replacement windows to meet minimum energy efficiency requirements which are easily achieved using low E glass. For details visit [www.pilkington.co.uk/buildingregulations](http://www.pilkington.co.uk/buildingregulations)

### Noise reduction

- Customised insulating glass options
- For the highest performance: special laminated glass
- Ideal near busy roads, railway lines or flight paths
- Creates a peaceful and enjoyable environment

### Solar control

- Prevents heat build up in summer
- Reduces 'greenhouse' effect caused by the sun
- Ideal for roof spaces and large glazed areas
- Available clear or in blue, green, grey or bronze tints

### Self-cleaning

- Continuously cleans itself to look smarter, longer
- Needs little maintenance
- Ideal for any external application, especially large or difficult to reach areas like conservatory roofs



### Safety

- Protects against injury from accidental impact
- Two types available – toughened and laminated
- Toughened breaks into small, safe granular pieces
- Laminated may crack on impact but stays intact and in place
- Correct framing system needed for maximum safety

### Thermal insulation

- Greatly reduces heat loss
- Keeps your home at a comfortable temperature
- Lowers heating bills
- Eliminates 'cold spots' by windows
- Reduces internal condensation
- Ideal for windows



### Decorative doors

- Attractive decorative feature with designer products available
- Style options include textured glass, etched pattern or opaque finish
- Allows light through while obscuring unattractive views

### Security

- Laminated glass holds together to prevent entry
- Makes large areas of glass extremely secure
- Reduces vulnerability to vandalism or break-in
- Appropriate framing system and locks are crucial to performance

### Decorative windows/conservatories

- External features such as leaded lights or Georgian bars
- Attractive additions to top-light such as bevelling or brilliant cutting
- Textured glass, etched glass or opaque glass can provide privacy



## THE PILKINGTON INSULIGHT™ RANGE

As the world's leading glassmaker, Pilkington offers a wide range of insulating glass units incorporating our quality glass products and processes. For details, visit [www.pilkington.co.uk/householders](http://www.pilkington.co.uk/householders)

When it comes to insulating glass units (IGUs), Pilkington continues to lead the way. Pilkington **Insulight™** – the name given to our own range of IGUs – are technically advanced, dual sealed insulating glass units compliant with both National and European Standards for insulating glass. And, because we offer six popular IGU options, each possessing a unique property from our specialist glass range, you get the choice you want from a brand that provides a reassurance of quality you expect. So, whatever your glazing requirements, Insist on **Insulight™** every time – just look for the name on the spacer bar.

<b>Solar control</b>	Pilkington <b>Insulight™</b> Sun incorporating: Pilkington <b>Optifloat™</b> Tint in Blue, Grey, Green or Bronze Pilkington <b>Eclipse Advantage™</b> in 6 colours Pilkington <b>Suncool™</b>	<b>Decorative</b>	Pilkington <b>Insulight™</b> Décor including: Pilkington Texture Glass Pilkington <b>Optifloat™</b> Satin Pilkington Oriel collection Pilkington Decorative Glass; Etched, Leaded lights, Georgian bars, Bevels and Brilliant Cut
<b>Thermal insulation</b>	Pilkington <b>energikare™</b> with enhanced solar gain Pilkington <b>Insulight™</b> Therm* incorporating: Pilkington <b>K Glass™</b> – the UK's most popular low E solution <small>*Now with gas fill as standard</small>	<b>Self-cleaning</b>	Pilkington <b>Insulight Activ™</b> including: Pilkington <b>Activ™</b> range Pilkington <b>Activ™</b> Blue – a blue tinted glass combining solar control and self-cleaning Pilkington <b>Activ™</b> Neutral – a neutral coloured glass combining self-cleaning with solar control
<b>Safety and Security</b>	Pilkington <b>Insulight™</b> Protect incorporates the Pilkington product range in toughened or laminated options as required. Pilkington <b>Optilam™</b> (laminated) Pilkington T glass (toughened)	<b>Noise control</b>	Pilkington <b>Insulight™</b> Phon: Pilkington <b>Optiphon™</b>