

Signature

Glass

Signature glass

Signature  
because it's personal

# Energy-efficient glazing

All properties lose heat through their windows. Installing energy efficient glazing is an effective way of reducing your energy bills and keeping your home warmer and quieter.

Double glazed windows use two sheets of glass with a gap between them which creates an insulating barrier.

Energy-efficient windows are available in a variety of frame materials and styles. They also vary in their energy-efficiency, depending on how well they stop heat from passing through the window, how much sunlight travels through the glass and how little air can leak in or out around the window.

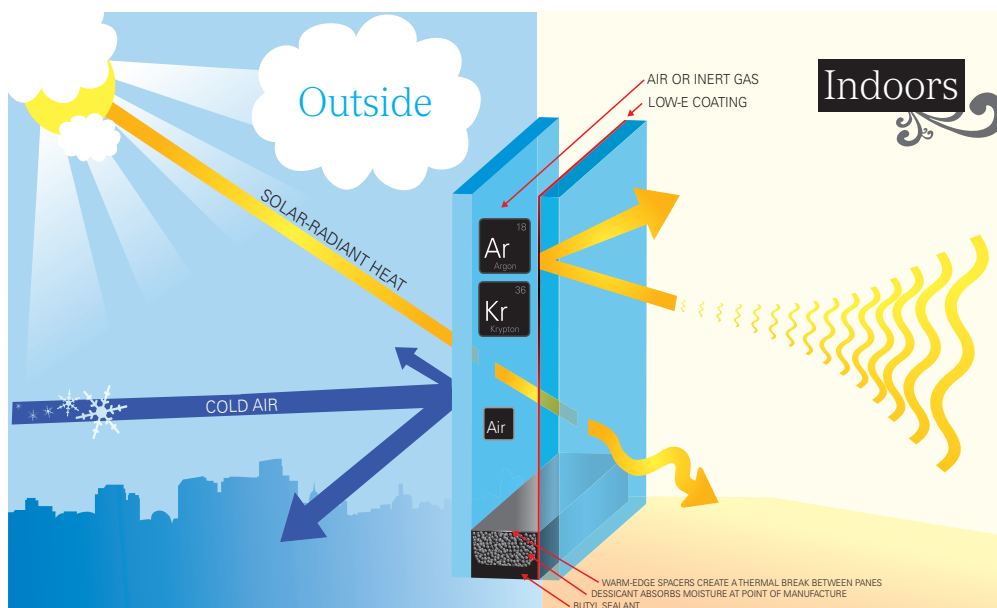
The Signature range is part of a window energy rating scheme to show the energy efficiency of their products. This is similar to the one you may have seen on appliances such as your fridge, or washing machine. A-rated windows are the most efficient.



## Signature glass contents

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*See our dedicated energy leaflet for more  
on how ecological Signature is*



## What type of glass is best?

The most energy-efficient glass for double glazing is low emissivity (**Low-E**) glass. At Signature, we use **Planitherm Total +** from **Saint Gobain** – the market leader. This has a metal oxide coating that allows sunlight and heat in, but also stops heat escaping.

Other combinations can also improve efficiency: Extra-clear, **Low-Iron** glass increases the effect of sunlight warming your home on cold days; **tinted** or **solar-control** glasses are used for the more exposed parts of your home. Other types include **obscure glass** for privacy (see over) or **easy-clean** glasses for hard-to-reach areas.



## What's between the panes?

Using just air, Signature windows are already very efficient. However, using other gases such as argon or krypton massively increases the thermal-efficiency and raises the Window Energy Rating.

## What keeps the panes apart?

All our windows have a spacer between the panes, these are made from Aluminium, Enclosed Polymer Foam or Composite materials.

**Super Spacer** or **Swiss spacer** (known as **Warm Edge Spacers**) form a thermal break between the conductive parts of the sash, dramatically reducing the transference of cold from outside into your home.

The **BSI Window Energy Rating** scheme checks all components to ensure the window achieves the energy-efficient standard claimed. This means that you just need to look for the A-C ratings and remember A is best! Alternatively, just look for the **Energy Saving Trust Recommended** logo which will only be found on glazing that is B rated or above.

## Do you need ventilation?

Because replacement windows will be more airtight than the original single glazed frames, condensation can build up in your house due to the reduced ventilation.

If there is not a sufficient level of background ventilation in the room some replacement windows will have trickle vents incorporated into the frame that let in a small amount of controlled ventilation.

## The benefits

### ★ Smaller energy bills:

Replacing all single-glazed windows with energy-efficient glazing could save you a great deal per year on your energy bills

### ★ A smaller carbon footprint:

Using less fuel, you'll generate less of the carbon dioxide (CO<sub>2</sub>) that leads to global warming

### ★ A more comfortable home:

Energy-efficient glazing reduces heat loss through windows and means fewer draughts and cold spots

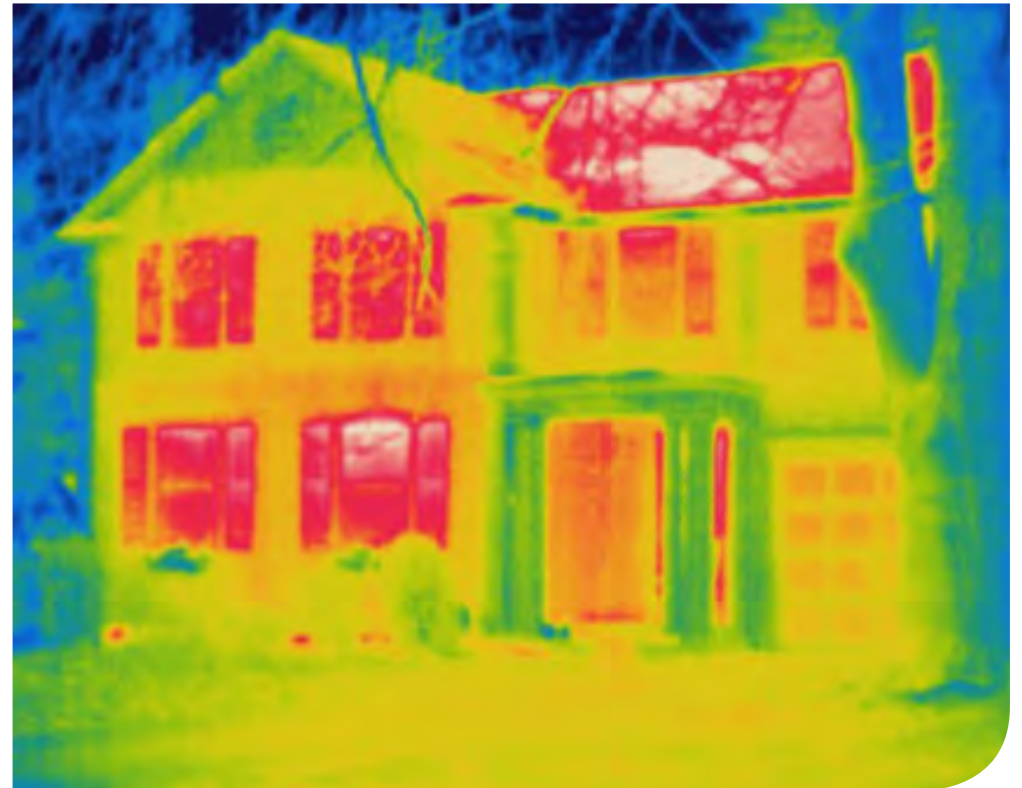
### ★ Peace and quiet:

As well as keeping the heat in, energy-efficient windows insulate your home against unwanted outside noise

### ★ Reduced condensation:

Energy-efficient glazing reduces condensation build-up on the inside of windows

The costs and savings of double glazing will be different for each home and each window, depending on the size, material and design.

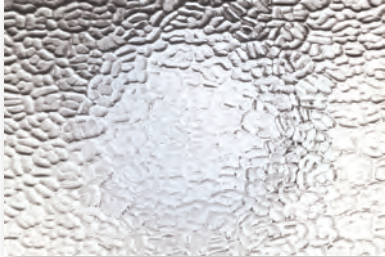


#### Heat escape routes

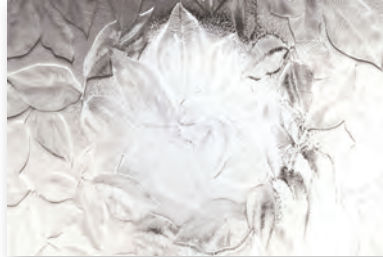
Take a look at this image showing heat loss from a house. Red shows where most heat is lost - through the windows and roof.

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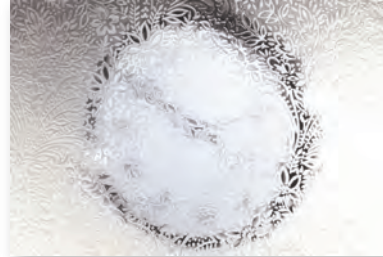
# Obscure glass



Arctic



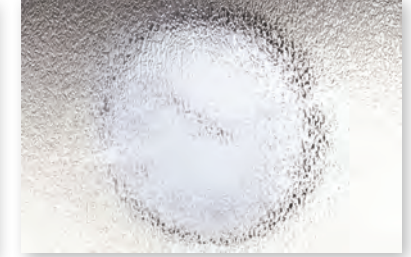
Autumn



Chantilly



Charcoal



Contora



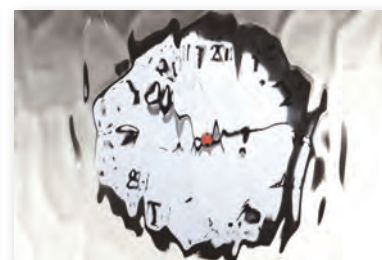
Cotswold



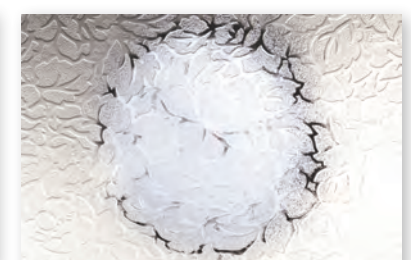
Digital



Everglade



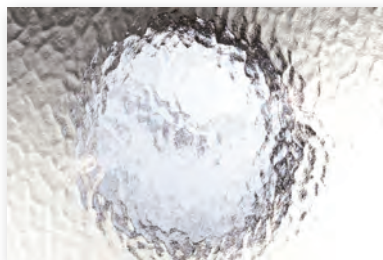
Flemish



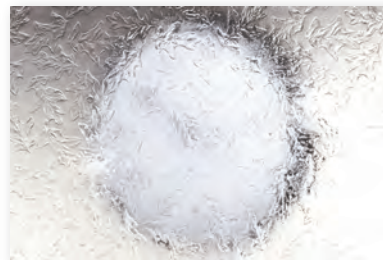
Florielle



Mayflower



Minster



Oak

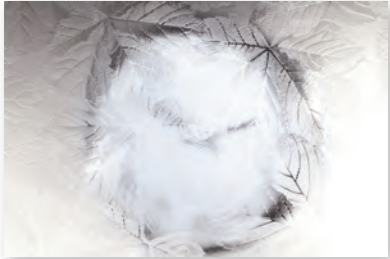


Pelerine



Stippolyte

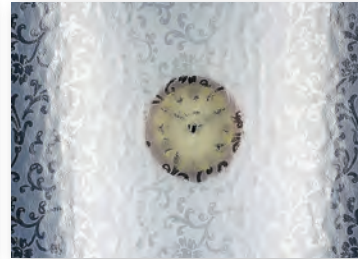
# Premium obscure glass



Sycamore



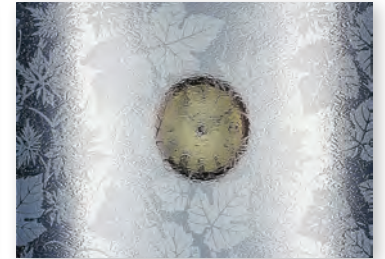
Brocade



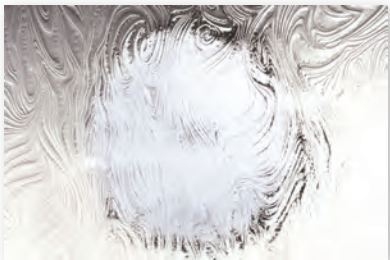
Texture Brocade



Coppice



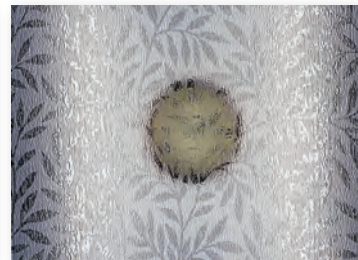
Texture Coppice



Taffeta



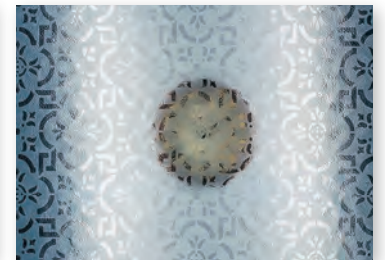
Laurel



Texture Laurel



Canterbury



Texture Canterbury



Warwick



*Signature*



## Lead Types

Self-adhesive lead is normally applied inside and outside face of the external pane of glass to create a traditional leaded effect.

The design selected is drawn either by hand or laid out on a grid to ensure the lead is applied accurately. There is a wide range of lead types available in numerous thicknesses and colours although the normal types selected for Square, Diamond, Queen Anne designs 9mm Oval in Natural Lead.

### Natural

99.5% pure lead strip gains a natural grey patina with time to create a traditional leaded window look. Joints can be soldered to create an even more traditional effect.

This is the normal lead used in Double glazing. The Lead will naturally age and some "milking" (oxidation) will occur over a period, this is completely natural and nothing to worry about. Alternatively you could select Platinum or Antique.

### Platinum

Lead coated with a clear satin weatherproof polymer coating to avoid problems sometimes associated with the ageing process of lead. The protective coating should not be abraded and thus soldered joints are not possible.

### Antique

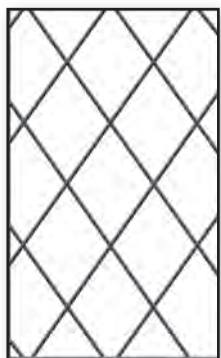
Lead coated with a dark grey weatherproof polymer coating to give a dark antique 'ready aged' lead effect. The protective coating should not be abraded and thus soldered joints are not possible.

### Brass

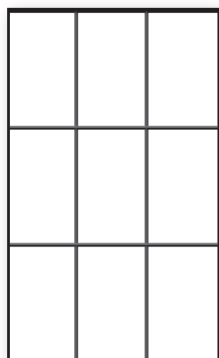
Lead coated with a high gloss polymer to give a brass effect. This product is particularly attractive when combined with Bevels.

The protective coating should not be abraded and thus soldered joints are not possible.

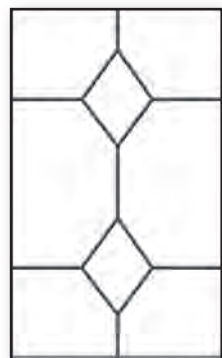
## CHOOSE A LEAD DESIGN...



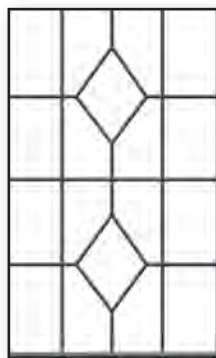
Diamond/Elizabethan



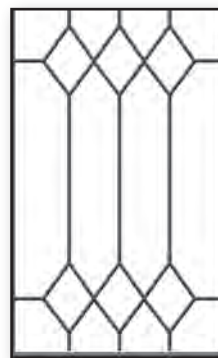
Square/Georgian



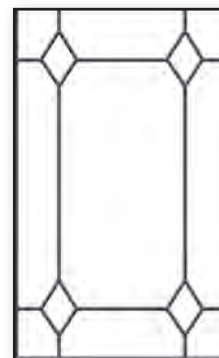
Queen Anne



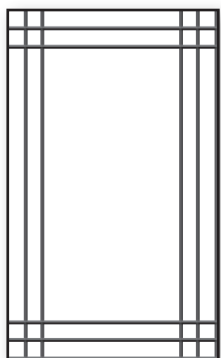
Queen Anne with border



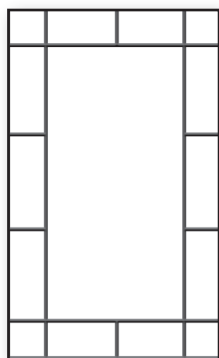
Diamond pillar



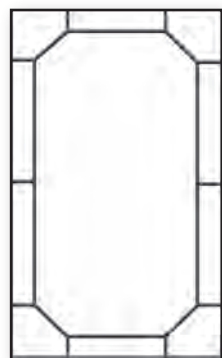
Diamond border



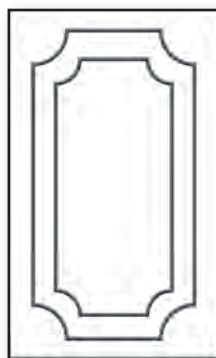
Oxford border



Square border



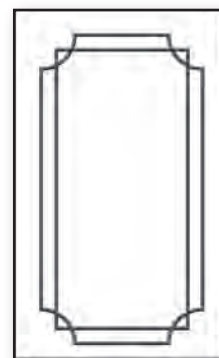
Regency



Double gothic



Single gothic



Square double gothic

## ...THEN CHOOSE A LEAD TYPE



Natural



Antique



Brass



Chrome



Black

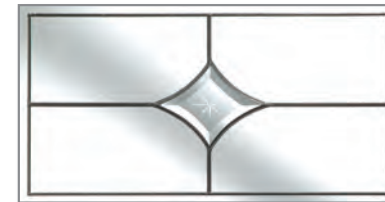


Platinum



Signature

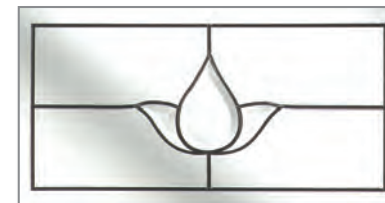
Bevel designs



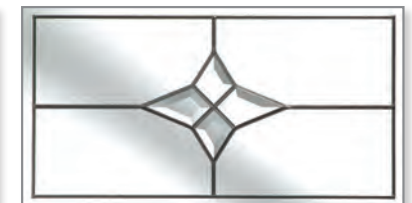
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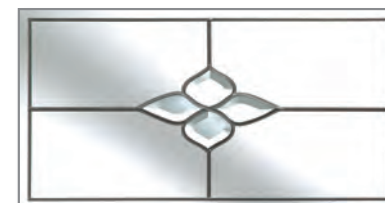
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FB11



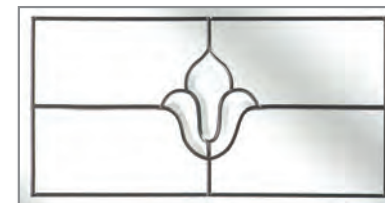
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FB13



FB14



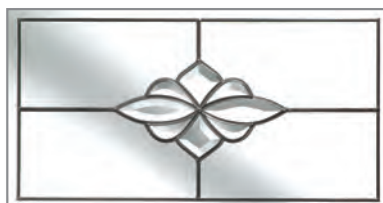
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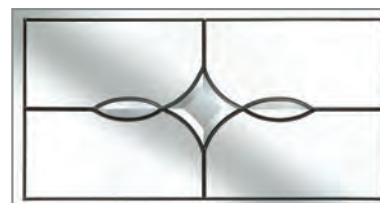
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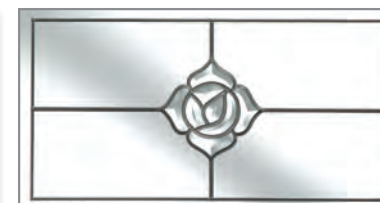
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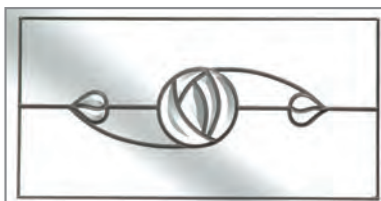
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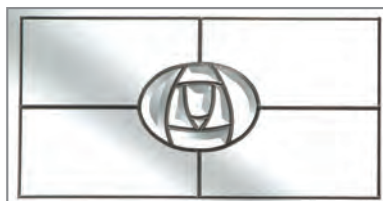
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FB20



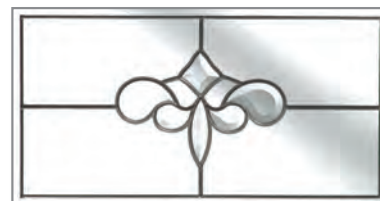
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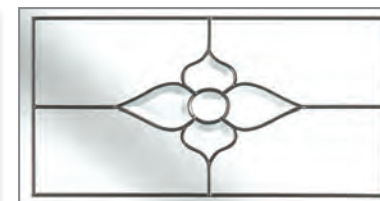
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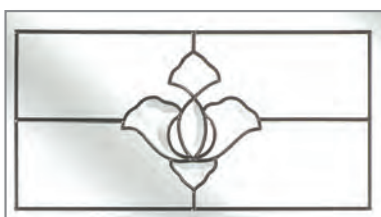
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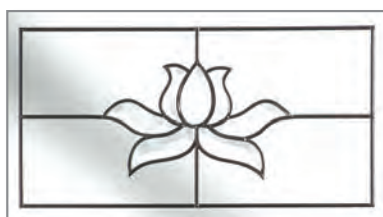
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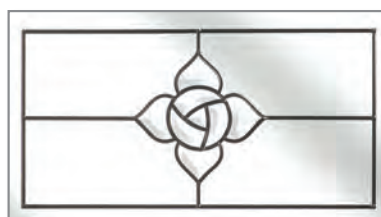
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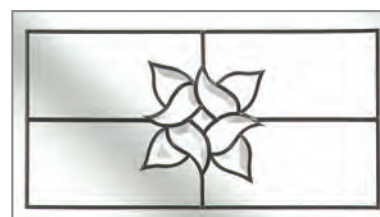
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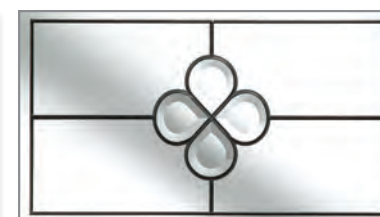
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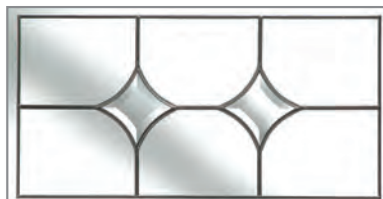
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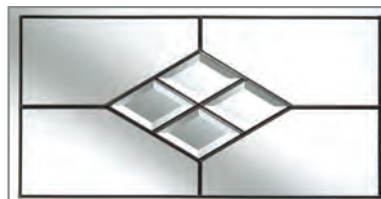
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FB30



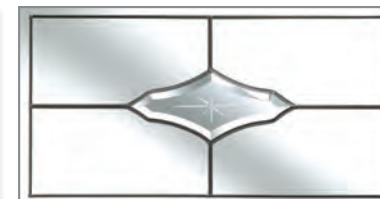
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FB5



FB6

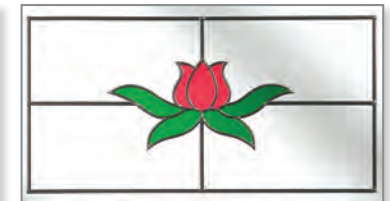


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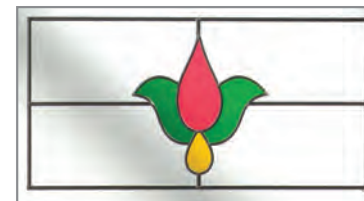
Colour designs



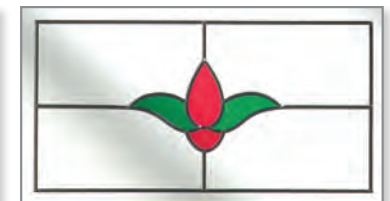
FC1



FC2



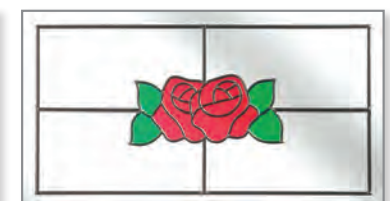
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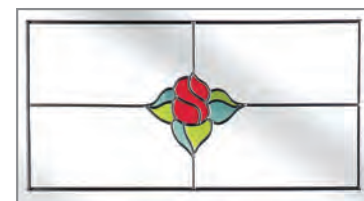
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FC5



FC6



FC7



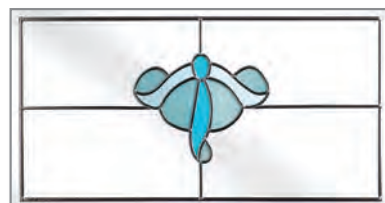
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FC10



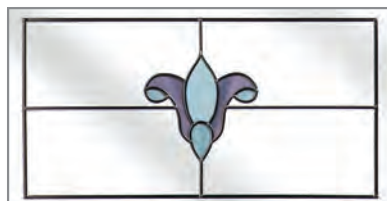
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FB37



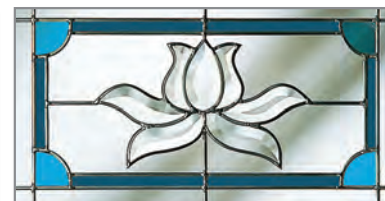
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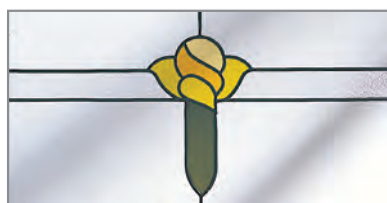
FC14



FB38



FB39



FC15



FC16



FC17



FC18



FC20



FC22



Signature



## Georgian Design

Georgian bars are available in the traditional integral type, which are located in between the two panes of glass and now the Astrical Georgian bar which is mounted on the front face of the glass both inside and out.

The integral Georgian bars add great character to your property, however they still retain the ease of cleaning and maintenance to your windows and doors, as the feature bars are located inside the double glazed sealed units.

These Georgian bars are available in White, Brown, Rosewood and Oak and they come in 18mm or 25mm widths.

## Astrical Bar

The Astrical Georgian bars are a relatively new development to the uPVC market and look more in keeping with the traditional Georgian bars found on timber windows. These are available in White, Rosewood and Oak.





Rosewood



Oak



Built up to a standard  
not down to a price

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not down to a price

[www.signature-windows.com](http://www.signature-windows.com)