

# GEORGE BARNSDALE

Est. 1884

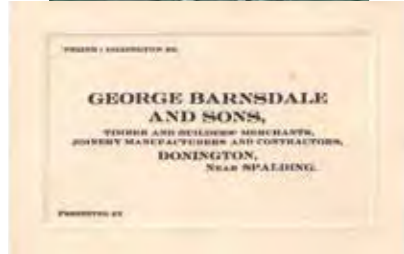
## Traditional Range



TIMBER WINDOWS & DOORS

 **MADE IN  
BRITAIN**

over  
**130**  
years  
of premium timber  
windows & doors



# Committed to UK Manufacturing

For over 130 years and five generations we have been committed to the manufacture of premium timber windows and doors. We're proud to still remain a family business and to operate from the same site in Donington, Lincolnshire.

- 1884** **George Barnsdale**  
The business was started in 1884 when George Barnsdale opened a small carpentry firm, which soon built a reputation for quality craftsmanship.
- 1918 - 1939** **Walter & Frederick Barnsdale**  
Soon after the First World War, George's two sons Walter and Frederick joined the business. Between the wars Fred was involved with the development of BS644 (the British Standard for Timber Windows) and the brothers set up a modern joinery factory with the latest machines.
- 1945** **John Barnsdale**  
The business did manage to keep trading during the turbulent times of the Second World War but was very much scaled down. After the war, Frederick's son John joined the business.
- 1984** **Helen & Stephen Wright**  
When John was at retirement age in 1985, his daughter Helen and her husband Stephen joined the management team. It was Stephen that brought product performance to the forefront.
- 1990 - 1998** **A Period of Significant Investment**  
During this period we were the first joinery company in the UK to introduce CAD into our design and production process. We were also the first company to invest in CNC technology.
- 2006** **Tom Wright**  
Tom Wright became the 5<sup>th</sup> generation to join the business after training as a Design Engineer at Nissan. His remit was to improve product performance through the implementation of modern manufacturing processes. In this year Tom introduced a fully integrated Windowline, an automated window production line fully integrated to our office software.
- 2014 - 2016** **SERVOWOOD**  
Stephen was one of two UK representatives on the EU funded SERVOWOOD project. SERVOWOOD was formed to work towards better prediction of the long term performance of coating on external joinery.
- 2017** **Research & Development Test Centre**  
In August the Research & Development Test Centre was opened. This allows the company to test to the relevant standards for air permeability, water-tightness and resistance to wind, salt spray testing of ironmongery and measuring the long term performance of Insulated Glass Units and coated timber.

## Where time-honoured design and twenty-first century technology meet.

At George Barnsdale we've been crafting the highest quality timber windows and doors at our Lincolnshire based factory since 1884.

Our most popular range of timber windows and doors is the Traditional Range. Offering an elegant synthesis of period design and exceptional performance, our Traditional Range offers a high degree of customisation to meet the precise requirements of your project.

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# Exceptional Benefits As Standard

Expertly designed for renovation and traditional new build projects, our Traditional Range combines period styling with exceptional performance without compromise. Reassurance is provided through the provision of market-leading guarantees.

## Outstanding performance

The Traditional Range meets the highest standards in terms of weather resistance, security, thermal and acoustic insulation. We have data by UKAS approved test houses to validate all performance claims.

Our innovative glazing system is pivotal to the exceptional performance of the Traditional Range. All of our timber windows and doors are glazed from the inside providing enhanced security and improved weather performance, as well as protecting the bead resulting in a longer life. To enhance longevity, the sashes are also drained and vented to ensure that the glazing system is protected.

## Traditionally beautiful

In the design of our Traditional Range we have overcome the age-old challenge of design and performance compatibility issues. Our timber windows and doors incorporate authentic period detailing, with no detriment to their exceptional performance.

## The clearest view

Glazing plays an extremely important role in the overall performance of a window. We employ our own stringent Glazing Visual Quality Standard which far exceeds that of the Glass and Glazing Federation, the industry standard. We accept only the best glass, guaranteeing the clearest view.

## Long life, low maintenance

Our sophisticated coating system has been developed to provide a long lasting, low maintenance finish that displays to its full effect the natural beauty of the timber. By applying our coatings in such a precise way we are able to provide, as standard, an industry leading 10 year guarantee for paint finishes and a 7 year guarantee for stain finishes.

For windows and doors manufactured completely from Accoya® we can increase these coatings guarantees to 12 years for paint and 9 years for stains.

## Excellent security

Our windows and doors incorporate multiple locking points as standard. Our products have been tested to PAS 24/Part Q\*. This testing allows us to provide guidance on the design specifications required to meet the exacting standards of The Building Regulations 2015: Security Dwellings.

## Customisation

Our approach is to devise a practical solution to a need rather than shoe-horn an existing product into a unique design requirement. Offering complete flexibility the Traditional Range has a choice of layout, profiles, glazing, coating and furniture options to meet the precise requirements of your project, whilst retaining exceptional performance.



GEORGE  
BARNSDALE  
Est. 1884

## Enduring quality

Through combining highly sophisticated machine tooling and hand-finished workmanship we can ensure the highest levels of quality. All of our products are manufactured to the finest tolerances. Joints fit perfectly and seals are located with absolute accuracy so that the finished product is as robust and weatherproof as it is aesthetically pleasing.

## Market-leading guarantees

Our products are designed to provide you with years of high performance with minimal maintenance. Recognising our attention to detail, our material suppliers have reinforced all of the guarantees that we offer. This provides the greatest degree of reassurance as our industry leading product guarantees are backed by multinational suppliers.



\* Refer to our Performance Data on pages 52-53.

# Timber Windows

Our commitment to quality, beauty and performance has always been at the forefront of what we do and we are proud to be one of the UK's leading timber window manufacturers.

The natural warmth and beauty of timber windows complement any style of home, from farmhouse and Victorian terraces to modern new builds. To ensure a perfect fit with the property all of our window designs can be highly customised. With a variety of opening, layout, glazing, paint, stain and window furniture options you can be assured that we can deliver the perfect window to meet your project needs.

- Casement Windows
- Sliding Sash Windows
- Tilt & Turn Windows
- Pivot Windows



The look and feel of any window is influenced by the choice of furniture. We have worked with leading hardware suppliers to create five specialist window furniture collections to complement our designs and to suit a variety of projects.

# Casement Windows

In our Traditional Range, we offer both flush and stormproof casement windows. Both windows are designed and manufactured to provide excellent thermal, acoustic, weatherproof and security performance. To capture the timeless aesthetic qualities of casement windows, we offer a wide range of layout, glazing and paint options.

## High security

Security is intrinsic to our design approach. All casement windows are fitted with multiple locking points as standard and we can modify our standard design to meet the challenging standards of PAS 24/Part Q, with the incorporation of security laminated glass.

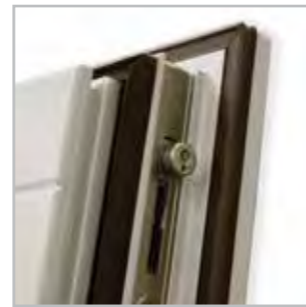


### Multi-point locking

Rather than trusting the robustness of a single locking point, our system uses multiple locking points, and bi-directional cams. This provides a high degree of security while ensuring a snug, weatherproof fit which contributes to the long life of the window.

## Excellent weather performance

Dual weather seals create a low pressure cavity which greatly contribute to the window's outstanding performance. They help to retain warmth and exclude noise and moisture. So as not to detract from the authentic appearance of the window, these weather seals are discreetly positioned.



## Concealed easy clean hinges



Casement windows are supplied with a concealed hinge as standard. These convenient hinges are located within the frame and are invisible from inside when the window is closed. When open the hinges allow for easy cleaning from the inside.

## Astragal bars



For traditional detailing we can incorporate astragal bars to the window design. As standard, external bars are manufactured from Accoya® and fixed into the sash, providing lasting performance.

## Trickle vents



We offer an integrated ventilator within the head of the frame, which can be matched to your preferred paint finish. These can also be fitted to the top rail of the sash and often makes an excellent solution for replacement.

## Regency mock sash designs



We can customise our standard flush window design to provide regency mock sash casement windows. Finished with decorative horns, this style provides an authentic sliding sash window appearance.



Double flush casement window finished in white (RAL 9016), fitted with astragal bars and monkey tail handles from The Foundry Collection.



## Available hinges

### Standard hinge

Friction hinges are fitted as standard providing simple and smooth operation. On side-hung casement windows, this hinge allows the window to open to 90 degrees in order to maximise the opening for escape purposes. In addition, releasing catches on the top and bottom of the hinge allows the window, when opened, to slide towards the centre of the frame allowing the outside to be accessed for easy cleaning.

### Restrictor hinge

With a built-in safety restrictor, this hinge prevents the window from initially opening more than 15 degrees. On side-hung windows, the restrictor can be released to allow the window to open to 90 degrees and, like the standard hinge, catches can be released so that the frame can be accessed for cleaning.

### Hinge protectors

For enhanced security performance, hinge protectors are fitted. These provide additional strength to help prevent forced access.

### Reversible hinge

This hinge allows the window to be completely rotated so that the outside of the glass is on the inside.

### Traditional butt hinge

This hinge is specified for aesthetic detailing as it allows traditional designs to be accurately matched. We also use this on shaped windows.

### Casement stays

As our casement window designs incorporate concealed friction hinges to retain the window firmly in place, there is no need for additional casement stays for functionality. Casement stays can be specified for aesthetic purposes.

# Sliding Sash Windows

Within the Traditional Range we offer three sliding sash window designs: box sash, spiral balance and tilting spiral balance. All window designs provide exceptional performance and offer a high degree of customisation to exactly match your project requirements.

## Window designs



### Box sash

Using cords and weights this window provides the most authentic design and effortless movement. It is particularly suited for those window openings requiring a larger, heavier sash.



### Spiral balance

This window design utilises a spring balance to offset the weight of the sash. Concealed in the frame, the spring balance allows for a narrower frame profile to suit modern reveal constructions.



### Tilting spiral balance

Similar to the spiral balance option, with a spring balance to offset the weight of the sash, this window design enables the window to tilt inwards to allow cleaning from the inside.

## High security



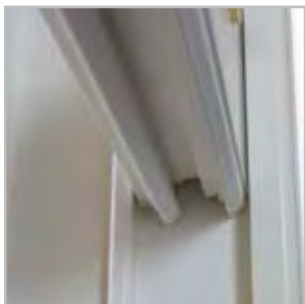
For maximum security, locking sash fasteners are fitted to the meeting rail. The windows are fitted with sash stops on either side of the frame so that whilst they can be opened for ventilation, the opening is restricted for security and safety.

## Accoya® linings



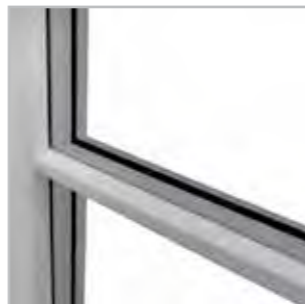
Frame linings have always been a vulnerable point within sliding sash window designs. To overcome this issue, and at no detriment to the window's traditional appearance, we use Accoya® timber linings on our standard ranges which provide greater durability.

## Excellent weather performance



Our innovative, concealed weather seals achieve a much higher degree of weather performance than most of our competitors' products. Air-tight and discreet they do not detract from the authentic appearance of the window.

## Astragal bars



For period matching, we can incorporate astragal bars into the window design. As standard, astragal bars are 21mm and those that are external facing are manufactured from Accoya® and fixed into the sash, providing lasting performance. Various profiles are available for the internal bar.



Box sash window finished in white (RAL 9016), fitted with astragal bars and window furniture from The Sash Collection.



# Tilt & Turn Windows

Originating from Europe, tilt & turn windows provide exceptional versatility and performance. Incorporating a dual hinge system, the window opens into the room from either the side or the top. For the Traditional Range, we have adapted the design of this window type to enable a perfect fit with period properties.

## Range of opening methods



### Tilt

Rotating the handle by 90 degrees allows the window to tilt open for ventilation purposes.



### Turn

Rotating the handle by 180 degrees allows the window to turn inwards. This enables easy cleaning of the outside glass and frame.

## High security



The multi-point locking system provides locking points around all four sides of the sash. In addition to providing excellent security performance, these fixing points prevent the timber from moving, contributing to the long life of the window. We can modify our standard design to meet the challenging standards of PAS 24/Part Q, with the incorporation of security laminated glass.

## Excellent weather performance



Discreetly located in the frame to avoid detracting from the authentic appearance, the dual weather seals help to retain warmth and exclude noise and moisture.

## Support of larger sizes



Incorporating high performance hinge mechanisms, concealed within the window frame, our tilt & turn windows can support a large number of sizes, including triple-glazed units.

## Astragal bars



For traditional detailing, we can incorporate astragal bars into the window design. External bars are manufactured from Accoya® and fixed into the sash, providing lasting performance.



Tilt & turn window with dual colour finish (white (RAL 9016) on inside and teak stain on the outside) fitted with astragal bars and the tilt & turn handle from The Original Collection.



# Pivot Windows

Our high-performance timber pivot window retains a traditional appearance while providing a simple opening mechanism that allows the cleaning of the glass from within. The robust system is suitable for a range of shapes and will support sash weights of up to 250kg.

## High security



Rather than trusting the robustness of a single locking point, our multi-point system distributes the lock mechanism around the entire window frame. The pivot window design is offered with an optional handle that provides ventilation securely at night. PAS 24/Part Q can be achieved upon request.

## Excellent weather performance



Discreetly located in the frame to avoid detracting from the authentic appearance, dual weather seals help to retain warmth and exclude noise and moisture.

## Flush hinges



Advanced hinges allow large sashes weighing up to 250kg to pivot around the horizontal axis with 180 degrees of rotation. For smaller pivot windows, where flush hinges cannot be incorporated, surface mounted hinges are featured to ensure that the window's exceptional performance is maintained.

## Ease of cleaning



180 degree movement allows the sash to be rotated to allow the external glass to be cleaned easily from the inside. This movement can be achieved with almost any shape that is symmetrical along the pivot axis (see below for asymmetrical shapes).

## Suitable for asymmetrical shapes



The pivot system will accommodate opening windows of irregular shapes. In this situation, the last 10 degrees of rotation will be restricted, due to the asymmetry, but will still allow for easy cleaning.

## Astragal bars



For authenticity, we can incorporate astragal bars to the window design. As standard, external bars are manufactured from Accoya® and fixed into the sash, providing lasting performance.



Pivot window with dual finish (white (RAL 9016) on the inside and moss green (RAL 6005) on the outside) and fitted with astragal bars.





# Window Furniture Collections

The look and feel of any window is influenced by the choice of furniture. In the creation of our window furniture collections we have focussed upon the key elements of aesthetics, quality, security and performance.

## The Original Collection

The Original Collection features our standard window handles. With simple, ergonomic design and push button locking, the handles are available in a range of colours, allowing seamless integration with a range of buildings and styles.

### Original Handle



Suitable for casement and pivot windows.

### Tilt & Turn Handle



A variation of our original handle for Tilt & Turn windows, allowing the operation of both the tilt and turn positions.

All of the above images are shown in Gold.

### Other Finish Options:



Polished Chrome



Satin Chrome



White



Black

## The Classic Collection

Elegant in appearance with a high quality finish, the Classic Collection has an understated beauty that suits any style of property.

### Ball End Handle



Suitable for casement, pivot and tilt & turn windows.

### Casement Stay



All of the above images are shown in Polished Brass.

### Other Finish Options:



Polished Chrome



Satin Chrome



## The Modern Collection

Providing a sleek understated finish, the Modern Collection is machined from marine grade stainless steel and is our most contemporary offering.

### Modern Handle



Suitable for casement, pivot and tilt & turn windows.

### Casement Stay



All of the above images are shown in Brushed Stainless Steel.

## The Foundry Collection

Offering antique wrought iron handles and casement stays, the Foundry Collection has been designed to provide a rustic appearance that makes it ideally suited to traditional cottages and farmhouses.

**Pear Drop Handle**



**Monkey Tail Handle**



Suitable for casement and pivot windows.

**Pear Drop Casement Stay**



**Monkey Tail Casement Stay**



All of the above images are shown in Black.

**Other Finish Options:**

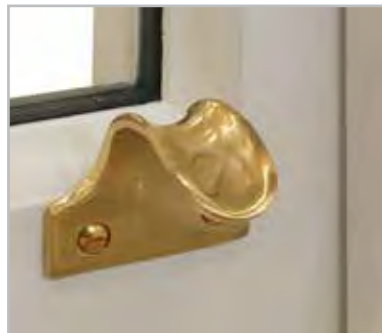


Pewter

## The Sash Collection

For our sliding sash windows we have an elegant furniture collection that provides simple, effortless operation and high security. The design and finish options allow a perfect match with all of our furniture collections.

**Sash Pull**



**Sash Fastener**



**Sash Stop**



**Sash Eye**



**Sash Pulley**



All of the above images are shown in Polished Brass.

**Other Finish Options^:**



Polished Chrome

Satin Chrome



Satin Nickel

Antique Brass



Pewter

Bronze

^Please note, the Polished Brass option is shown in the main product images.

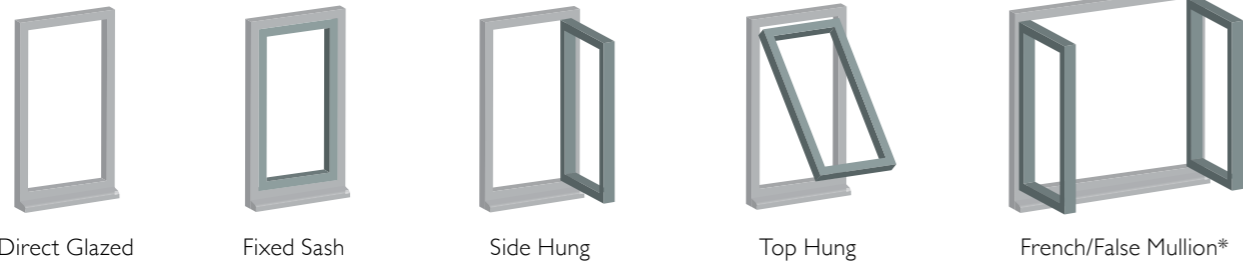
# Window Configurations

To meet the requirements of your project, for each window design we offer a number of opening and layout options. However, if your project demands alternatives we will work with you to develop new variations to meet the brief.

## Opening options

### Casement

(Shown from outside)



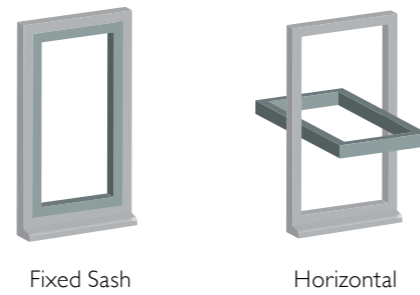
### Sliding Sash

(Shown from outside)



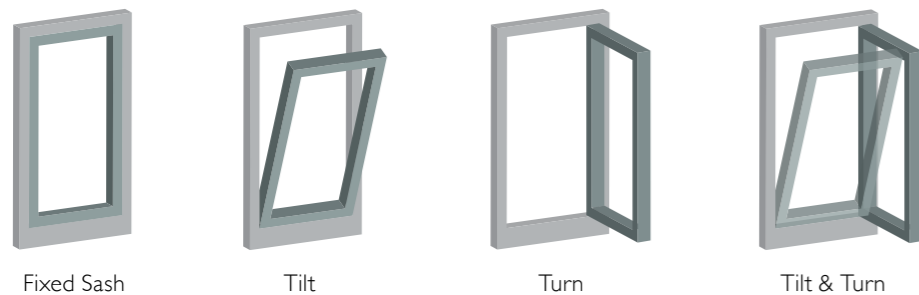
### Pivot

(Shown from outside)



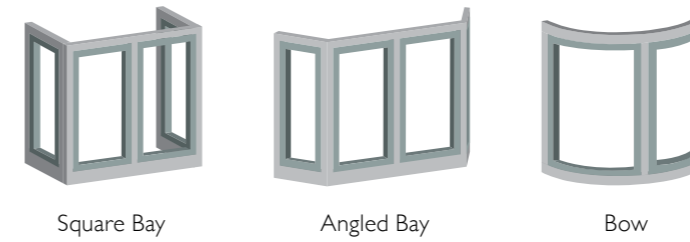
### Tilt & Turn

(Shown from inside)

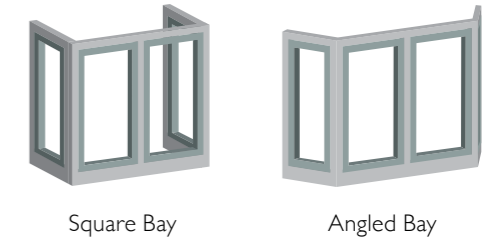


## Bay & Bow layout options

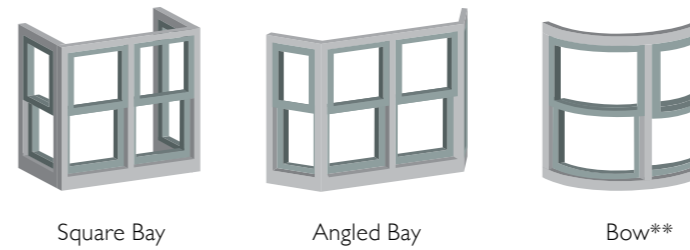
### Casement



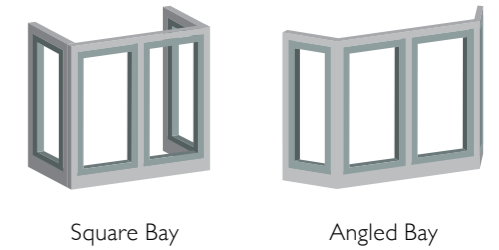
### Tilt & Turn



### Sliding Sash

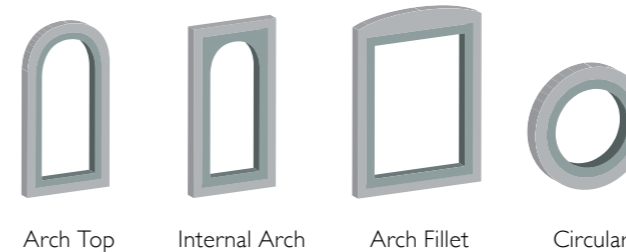


### Pivot

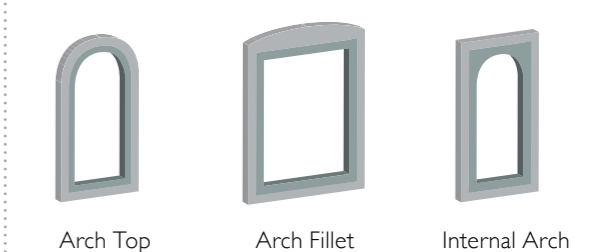


## Round Work/Arches options

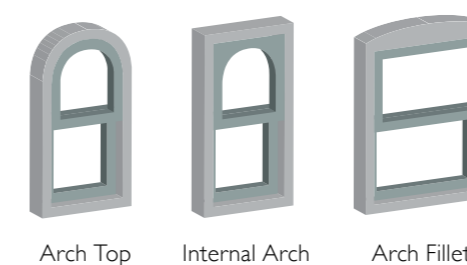
### Casement



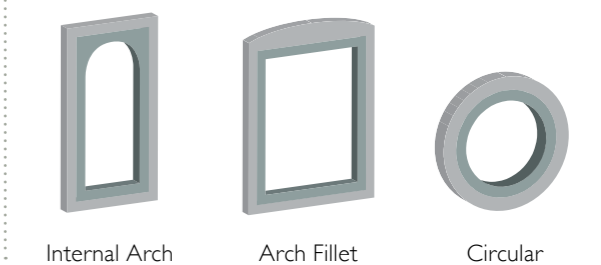
### Tilt & Turn



### Sliding Sash



### Pivot



\*The French option has the two sash rails meeting together, whereas the false mullion option has the frame mullion attached to the second sash to visually replicate a mullion when closed.

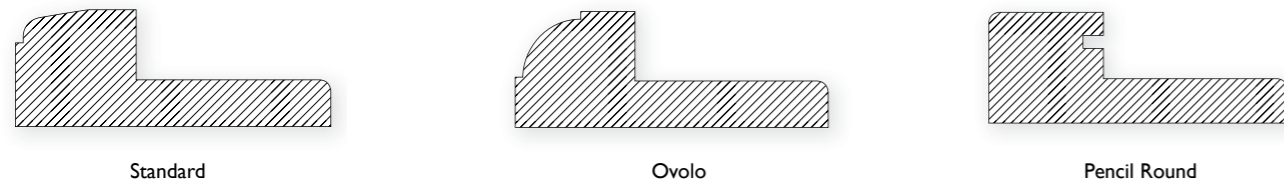
\*\*The bow window configuration is not available for the tilting spiral balance sliding sash design.

# Window Frame, Glazing Bead & Sash Bar Options

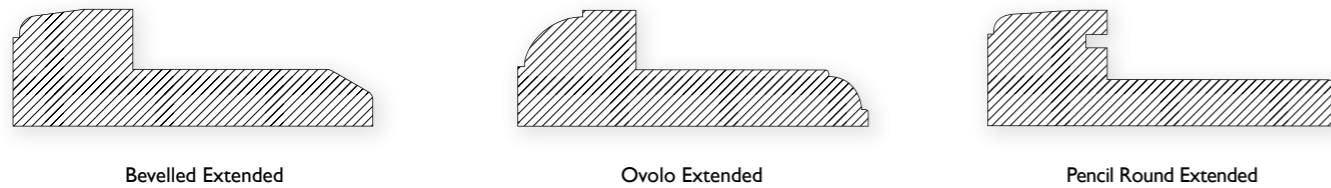
## Casement windows

For outward opening flush casement windows, the following options will need to be specified. Please note, matching sash bead and astragal bar profiles are available.

### Internal frame profile

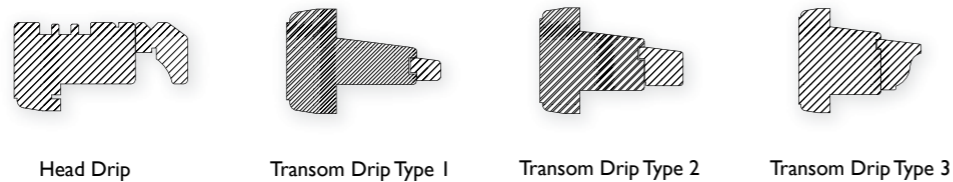


### Extended frame profile



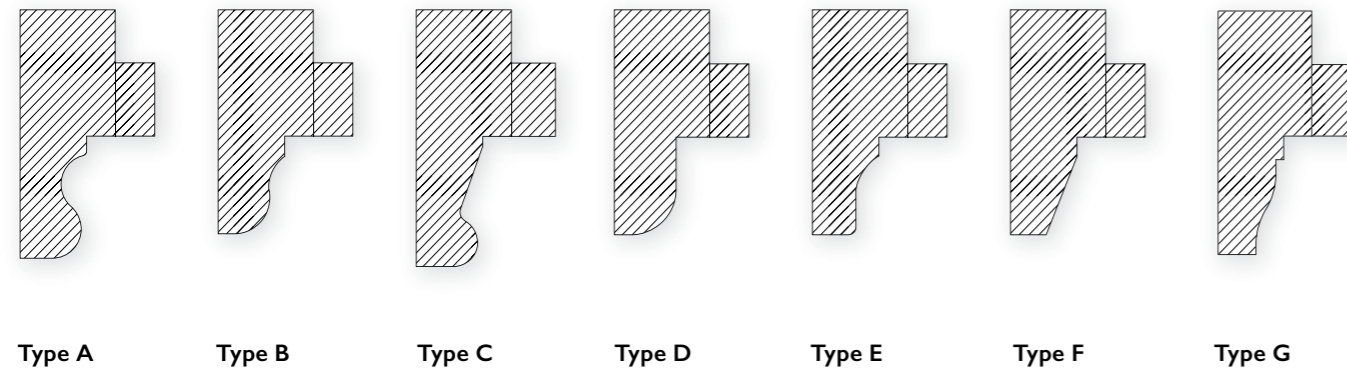
### Drips

If your windows are fitted flush with the outside brickwork, we recommend that a head drip is fitted.



## Sliding sash windows

Applicable only to sliding sash windows, top and/or bottom sashes can be specified with traditional sash horns. We offer the following types, but if required we can match existing designs.



## Glazing bead & sash bar options

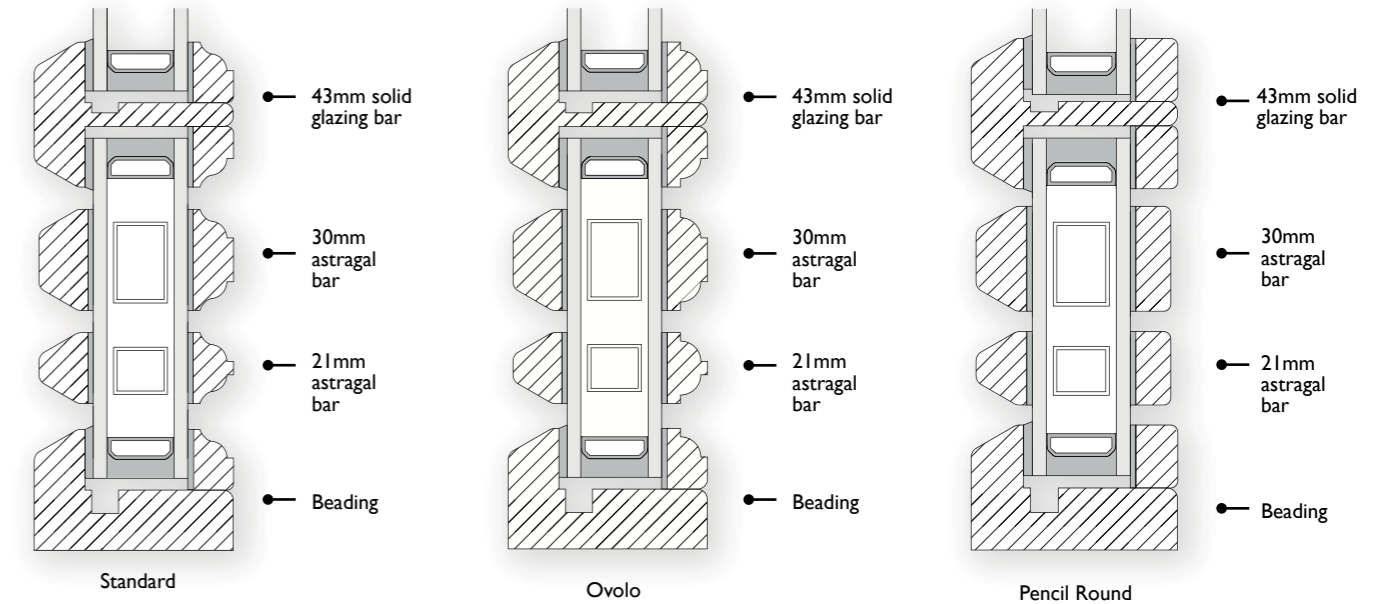
For all of our window designs, the following options will need to be specified. Please note, matching sash bead and astragal bar profiles are available.

### Beading

In the Traditional Range, all window sashes are internally beaded to enhance performance and longevity. You can choose from three designs: standard, ovolo and pencil round.

### Glazing bars

If specified, astragal bars are matched with the outside sash profile and internal glazing bead. For aesthetics, where astragal bars are specified, glazing units are supplied with inter-bars as standard.



## Installation options

Our installation options allow you to specify details to ensure that the window fits into the property correctly. We will usually ensure that these are specified accurately in the order processing phase.

### Cill extension

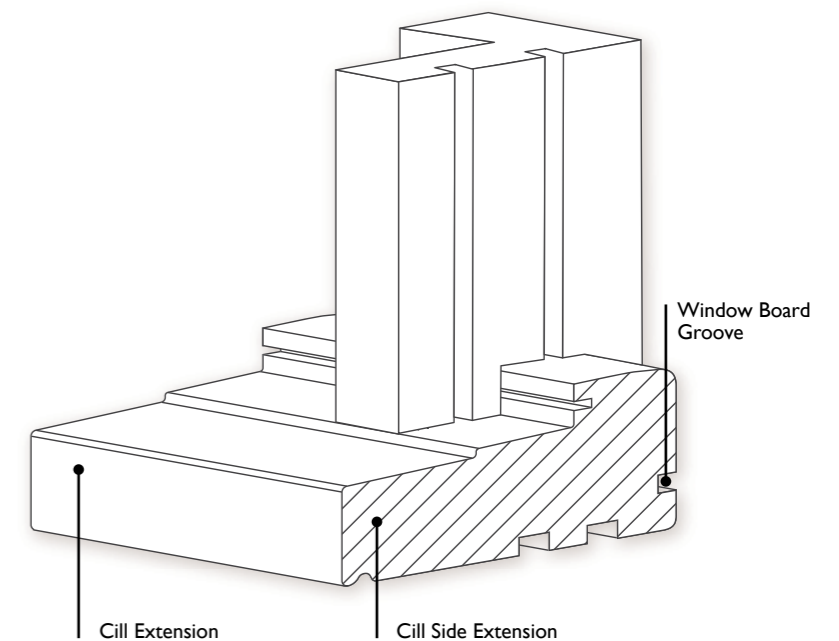
Allows the cill to extend over the brickwork. As standard we offer 30, 50, 70, 90 and 110mm\* extensions.

### Cill side extension (CSE)

Many replacement windows require cill side extensions. As standard we offer 25, 50, 75 and 100mm extensions.

### Window board groove (WBG)

Our windows can be specified with a window board groove. We have the option of no groove, as well as offering a range of window boards.



\*90 and 110mm extensions are exempt from the Coatings guarantee.

# Timber Doors

Security is intrinsic to our timber door designs, with the incorporation of multi-point locking and the most advanced cylinder locks as standard. With the inclusion of security laminated glass, our entrance, single, stable and French door designs meet PAS 24/Part Q standards.

To ensure the perfect fit for your project, each door design comes with high levels of customisation. Most features, from glazing to furniture, can be customised to your precise design requirements. We have a number of paint and stain finishes to choose from.

- Entrance Doors
- Single and Stable Doors
- French Doors
- Bifold Doors
- Sliding Doors
- Tilt & Sliding Doors



The look and feel of any door is influenced by the choice of furniture. We have worked with leading hardware suppliers to create specialist door furniture collections to complement our designs and to suit a variety of projects.



# Entrance Doors

Our entrance door designs offer exceptional beauty, security and insulation. They derive their air of quality from their weight, fit and movement. Whilst we offer a range of standard designs, we can manufacture to bespoke project requirements.

## High security

Security is intrinsic in our entrance door design, with multi-point locking and the most advanced locks as standard.



### Multi-point locking

With a number of locking points distributed along the edge of the door, the multi-point locking system engages all bolts when either the handle is operated, or when the door is closed (this will depend on the choice of locking system).



### Advanced cylinder locks

We only fit cylinder locks that meet the TS007 3 Star British Kitemark and the SS312 Sold Secure diamond standards (the highest rating in both schemes). We also offer a number of key options including 'keying alike' and 'master keying'.

### PAS 24/Part Q

With the inclusion of security laminated glass, our entrance door designs meet the challenging standards of The Building Regulations 2015: Security-Dwellings (Approved Document Q) as standard.

## Customisation

Whilst we offer a number of standard traditional designs we can easily adapt these to provide a more contemporary looking door. In fact most features, from glazing to furniture, offer high levels of customisation to ensure you get the exact look you desire.



### Paint and stain finishes

We can provide almost any colour paint or stain finish, with the option of dual colour, allowing the exterior to be a statement colour and the interior to match the internal furnishings.



### Glazing

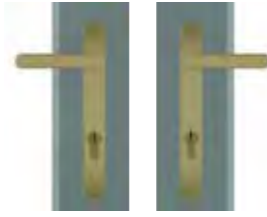
We offer a number of obscure glass options to help retain privacy, in addition to etched, sandblasted and stained glass.

### Door furniture

We offer an extensive collection of door furniture including letter plates, knockers, numbers and spy holes.

## Choice of locking systems

To meet exact application requirements we offer three locking systems. Pairing with electronic access control is also available.



External Internal

### Standard locking system

Ideally suited to doors that do not open directly onto a public space, our standard locking system has a key operated cylinder to deadlock. The system incorporates handles on both sides of the door which operate the latch and the multi-point locks.



External Internal

### Auto-locking system

With this system the multi-point locks are automatically triggered when the door is closed and as such is most practical for those doors that open onto a public or communal area. Only one handle is incorporated and this is located on the internal facing side.



External Internal

### Heritage locking system

Working in the same way as the auto-locking system, the heritage system has a higher lock position and internal thumb turn to replicate a traditional latch.



Georgian style entrance door with sidelights. Finished in pebble grey (RAL 7032) with door furniture from The Classic Collection (in satin chrome).



# Single & Stable Doors

Our traditionally styled single doors are a perfect addition to the side and rear of any property. The stable door design replicates the traditional, barn-style entrance and is especially suited to cottages and farmhouses.

## High security



Featuring multi-point locking and advanced cylinder locks as standard, our single and stable doors are designed with security in mind. Both the single and stable doors can incorporate security laminated glass to meet the challenging standards of PAS 24/Part Q.

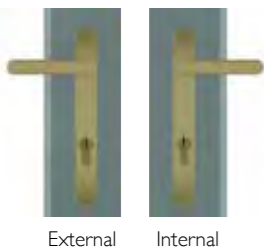
## Adjustable for perfect operation



To ensure the door is perfectly positioned for easy operation, our designs incorporate adjustable hinges which allow the door to be set after installation. In addition, adjustable lock keeps help to maintain the perfect balance between ease of closing and tight weathersealing.

## Choice of locking systems

### Single doors



#### Standard locking system

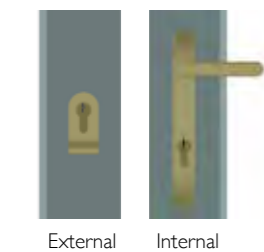
This, our standard locking system, has a key operated cylinder to deadlock and is most suitable for those doors that do not open onto a public space. The door incorporates handles on both sides.

### Stable doors



For the stable door, the top door is operated in the same way as our standard locking system with a handle on each side. The lower door has a cylinder operated by a key externally and a thumb turn internally.

For all locking systems, we offer a number of key options including 'keying alike' and 'master keying'.



#### Auto-locking system

With only one handle located on the internal facing side, the multi-point locks are automatically triggered when the door is shut which makes this locking system perfect for those doors that open onto a public or communal area.

## Customisation

Similar to our entrance door designs, both single and stable doors can be highly customised so that you achieve the exact aesthetic detailing your project demands. We offer a choice of glazing (including obscure and stained glass), the option to incorporate astragal bars (for period detailing) and an extensive collection of paint and stain options. If the colour coating you require is not included in our standard options then we can match a physical sample of branded paint colour. We can also provide doorsets in dual colour, allowing the exterior to be a different colour to the interior.

## Excellent weather performance

On both single and stable door designs we incorporate concealed gaskets and sealing plugs between the door and the frame to ensure that when the door is closed, the entirety of the frame is completely sealed. This provides excellent performance against the elements.



Single door finished in white (RAL 9016) with hardware from The Original Collection (in gold).



Stable door finished in pale green (RAL 6021) with hardware from The Original Collection (in polished chrome).

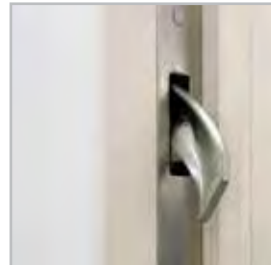


# French Doors

The original patio door, French doors provide a timeless and traditional feature to effortlessly tie your home and garden together. Produced with the finest materials and to the highest standard, our traditionally styled French doors are available as both inward and outward opening.

## High security

Similar to our entrance, single and stable door designs, all French doorsets incorporate multi-point locking and the most advanced cylinder locks.



### Multi-point locking

Concealed multi-point locks with integrated shoot bolts in the secondary door provide security as well as support along the length of the door to help prevent movement.



### Advanced cylinder locks

We only fit cylinder locks that meet the TS007 3 Star British Kitemark and the SS312 Sold Secure Diamond standards (the highest rating in both schemes). We also offer a number of key options including 'keying alike' and 'master keying'.

Ultion meets the highest TS007 standard (3 star) without needing to be bolstered with support of cylinder protectors or extra secure door handles. Sold Secure Diamond is a test developed in conjunction with The Master Locksmith Association.

### PAS 24/Part Q

With the inclusion of security laminated glass, our entrance door designs meet the challenging standards of The Building Regulations 2015: Security-Dwellings (Approved Document Q).

## Easy to operate

With a choice of opening methods, our French doorsets are simple to operate:

### Two handle locking system

This is our standard opening option and operates by the master door locking into the slave door, with the slave door having both top and bottom shootbolts which are operated by a handle.

### One handle locking system

Replicating the aesthetics of a traditional timber door, the master door is operated by a handle and the slave door has shootbolts both top and bottom which are operated by a concealed lever that is accessible when the master door opens.

## Excellent weather performance



When the doors are closed, the concealed gaskets and sealing plugs between the doors and the frame ensure that the entirety of the frame is completely sealed. This provides excellent performance against the elements.

## Adjustable for perfect operation



Our designs incorporate both adjustable hinges and keeps which allow the door to be set after installation and help to maintain the perfect balance between ease of closing and tight weathersealing.

## Concealed restrictor



All outward opening French doorsets are fitted with a restrictor to limit opening to 90 degrees to prevent damage from the door being blown in the wind.



French doorset featuring a two handle locking system and astragal bars. Finished in white (RAL 9016) with furniture from The Foundry Collection (in black).



# Bifold Doors

Bifold doors allow the creation of a clear opening, providing a seamless connection with the outside. With the option of inward and outward opening doors, our designs can be configured to work exactly as the space requires.

## High security

Security is paramount in the design of all of our doors. The bifold design incorporates the following security features:



### Multi-point locking

A multi-point locking system provides locking points around the entire door which are engaged through simple operation of the handle.



### Advanced cylinder locks

We only fit cylinder locks that meet the TS007 3 Star British Kitemark and the SS312 Sold Secure diamond standards (the highest rating in both schemes). We also offer a number of key options including 'keying alike' and 'master keying'.

## Excellent weather performance



The use of weather seals on the door leaves and within the track ensure that all parts of the door are well sealed, providing excellent protection from the elements. In addition, like our other door designs, the bifold doors incorporate concealed gaskets and sealing plugs between the doors and the frame to ensure that the entirety of the frame is completely sealed when closed.



## Easy to operate

We have designed our bifold doors so that they can be consistently opened and closed with ease.



### Low resistance sliding

Once the bifold door is installed, the low resistance sliding mechanism can be precisely adjusted to ensure that it opens and closes with ease.



### Adjustable hinges and keeps

To provide the same smooth feel as the day they were installed, advanced adjustable hinges allow for any movement in the doors to be simply adjusted. In addition, adjustable lock keeps help to maintain the perfect balance between ease of closing and tight weathersealing.



### Intermediate door handles

To avoid reaching and bending to open the doorset fully, our bifold designs incorporate intermediate door handles.



### Magnetic catches

Discreet magnetic door catches and holders allow the swing door to hold to the adjacent panel with minimal effort.



Outward opening bifold door finished in white (RAL 9016) with hardware from The Original Collection (in satin chrome).

Bifold door finished in white (RAL 9016) with hardware from The Classic Collection (in satin chrome).



# Sliding Doors

The great advantage of sliding patio doors is the extent of uninterrupted glass that they allow when closed. This results in increased natural light and an unobstructed view of the outside landscape.

## High security

All sliding doors incorporate the following security features as standard:



### Multi-point locking

With a number of locking points distributed along the door frame, the multi-point locking system engages all bolts when the handle is operated. This includes the secure ventilation mode.



### Advanced cylinder locks

We only fit cylinder locks that meet the TS007 3 Star British Kitemark and the SS312 Sold Secure diamond standards (the highest rating in both schemes). We also offer a number of key options including 'keying alike' and 'master keying'.

## Excellent weather performance



The design incorporates gaskets and sealing plugs between the doors and the frame so that it is completely sealed when closed. In addition, the high performance low threshold contributes to the overall performance against the elements whilst allowing the inside and outside to integrate almost seamlessly.

## Secure ventilation



The multi-point locking system can be engaged with an allowance of a 10mm gap to provide secure ventilation. The specialist handle ensures that this can be done with ease.

## Easy to operate

To allow all of our sliding doors, regardless of size, to operate with ease, we have incorporated low resistance rollers and a specialist handle into the design. The low resistance rollers can be easily adjusted for maximum efficiency after the doors have been installed.

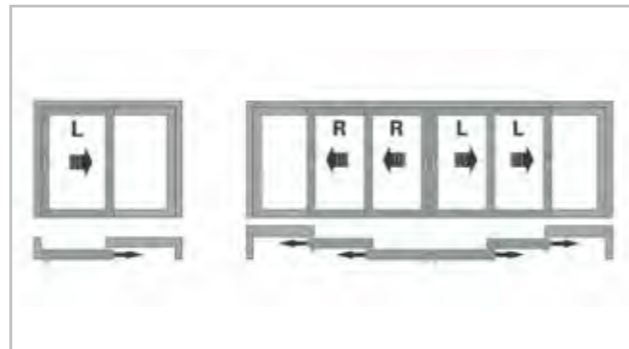


Closed - Locked in upright position

Open - Operational when rotated 180°

## Highly configurable

We offer a number of sliding door configurations (see page 44) to suit the layout of the room and the size of the reveal. All configurations allow for very large and heavy doors (up to 400kg in weight) to be specified without compromise of the sliding performance.



Sliding door finished in white (RAL 9016) and incorporating the sliding door handle from The Patio Collection (in Satin Chrome).



See page 42 to view our Patio Collection.

# Tilt & Sliding Doors

With the ability to provide ventilation without having to slide the entire door, our tilt & sliding doors offer outstanding functionality and flexibility. This makes the doorset the perfect solution for Juliet balconies, where ventilation and uninterrupted views are the main priorities.

## High security

All tilt & sliding doors incorporate the following security features as standard:



### Multi-point locking

With a number of locking points distributed along the door frame, the multi-point locking system engages all bolts when the handle is operated. This includes the secure ventilation mode.



### Advanced cylinder locks

We only fit cylinder locks that meet the TS007 3 Star British Kitemark and the SS312 Sold Secure diamond standards (the highest rating in both schemes). We also offer a number of key options including 'keying alike' and 'master keying'.

## Secure ventilation



Rotating the handle anti-clockwise by 90 degrees allows the top of the door panel to tilt inwards, providing an opening for ventilation. For security the handle can be locked in this position.

## Easy to operate

Similar to the sliding door design, the tilt & sliding door incorporates innovative features to allow it to be operated with ease:



### Specialist handle

All door positions (closed, open and tilted) are easily operated by the specialist handle being turned to a different position. The tilt position (for secure ventilation) is achieved when the handle is rotated anti-clockwise by 90 degrees. To fully slide the master door across, the handle is to be rotated anti-clockwise by 180 degrees.



### Low resistance rollers

Allowing even large doors to be opened and closed with ease, low resistance rollers can easily be adjusted for continued perfect operation after the doors have been installed.

## Excellent weather performance



Like the sliding door design, tilt & sliding doors incorporate concealed gaskets and sealing plugs between the doors and the frame to ensure that the entirety of the frame is completely sealed when closed. The high performance threshold also contributes to withstanding the elements.



Finished in white (RAL 9016) and incorporating the tilt & sliding handle from The Patio Collection (in silver).



# Door Furniture Collections

Our door furniture collections mirror those that we offer for our windows to ensure that you get a consistent finish across all products. The Original, Classic, Foundry and Modern Collections provide solutions for our entrance doors, French doors, single doors, stable doors and outward opening bifold doors. The Patio Collection offers specialist handles for sliding and tilt & sliding doors.

## The Foundry Collection

Manufactured using traditional wrought iron methods, the Foundry Collection provides a rustic appearance that makes it ideally suited to cottages and farmhouses.

**Knocker**



**Centre Knob**



**Cottage Handle**



**Avon Handle**



**Letter Plate**



All products shown above with a Black finish.

**Escutcheon**



**Numerals & Letters**



We offer the entire alphabet and all numerals.

### Other Finish Options:



Pewter

## The Original Collection

This is our standard door furniture collection which has been designed to allow seamless integration with a range of buildings and styles.

**Knocker**



Knocker also available with integrated spy hole.

**Original Handle**



**Numerals**



We offer all numerals

**Letter Plate**



All of the above images are shown in Gold.

### Other Finish Options:



Polished Chrome



Satin Chrome



White



Black

**The Classic Collection**

Elegant in appearance with a high quality finish, the Classic Collection has an understated beauty that suits any style of property.



All products shown above with a Polished Brass finish.

**Other Finish Options:**



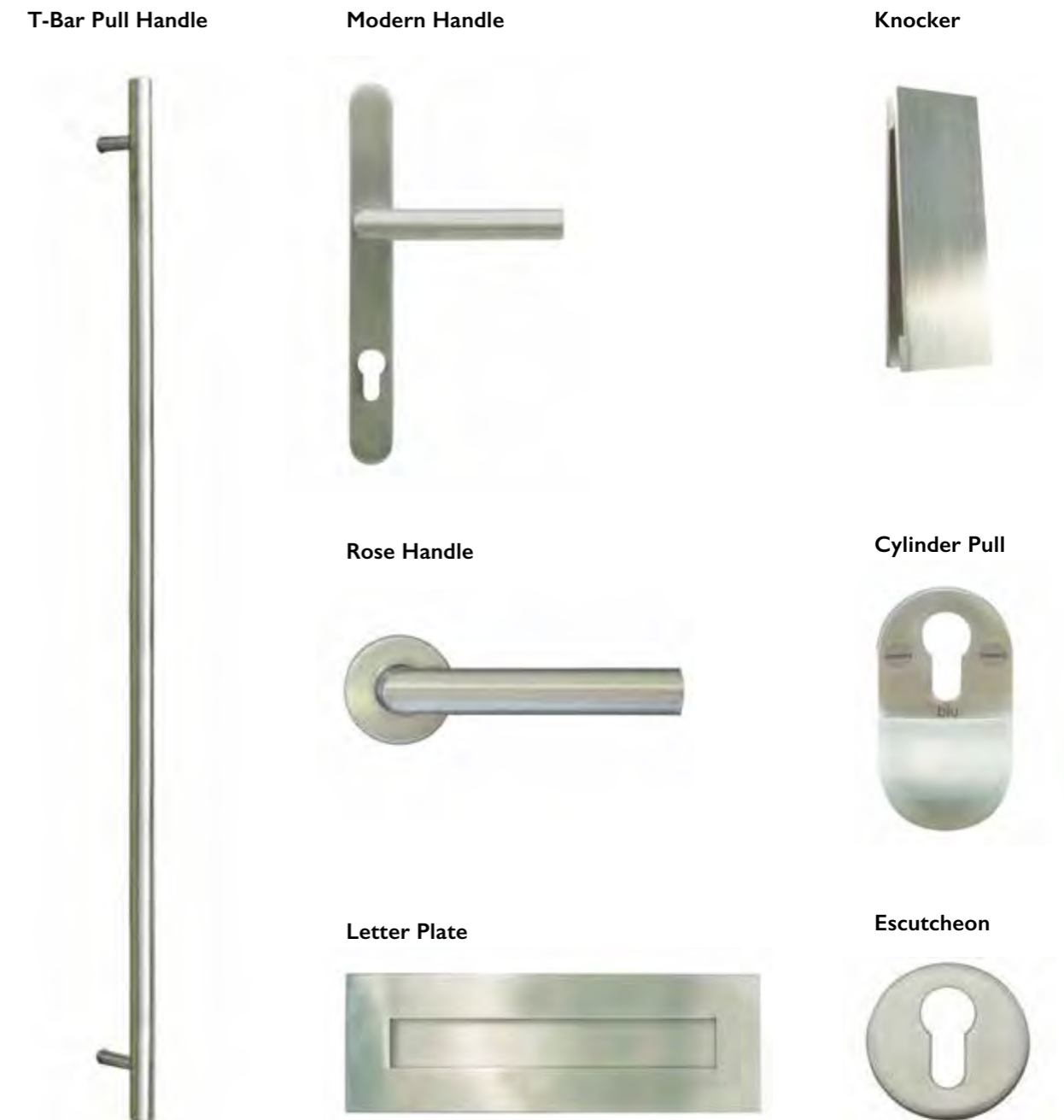
Satin Chrome



Polished Chrome

**The Modern Collection**

Providing a sleek, understated finish, the Modern Collection is our most contemporary offering. Machined from marine grade stainless steel, this collection is ideal for harsh and corrosive environments.



Products shown above with a Brushed Stainless Steel finish.

## The Patio Collection

Attractive in appearance, our patio handles have been specially designed to allow simple operation and access to ventilation positions.

### Sliding Door Handle



Closed Half Way Open

Product shown above in Satin Chrome.

### Other Finish Options



Bronze Polished Brass Polished Chrome

### Tilt & Sliding Door Handle



Closed Tilt Slide

Product shown above in Silver.

This handle is suitable for both tilt & sliding doors and inward opening bifold doors.

### Other Finish Options



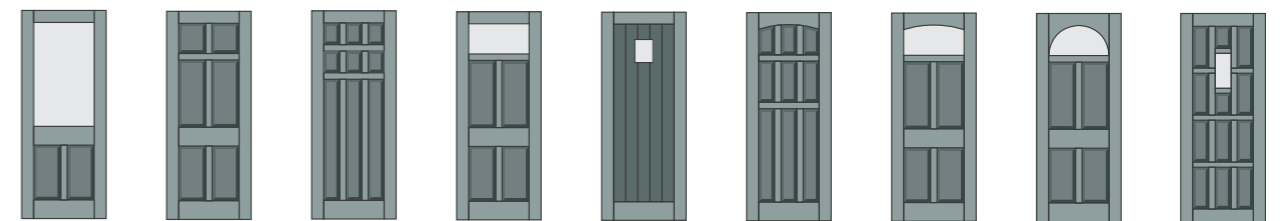
White Titanium Bronze

# Door Configurations

We have a number of door styles and configurations as standard, which are summarised below. These standard door designs are provided as a guide to provide inspiration. In reality, we can manufacture to any design specification, meaning that we can meet any bespoke needs.

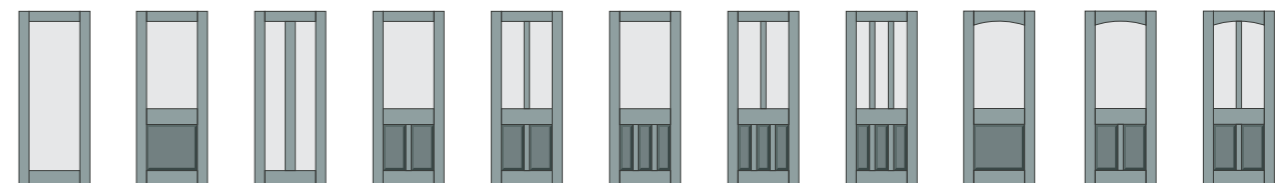
## Door style options

### Entrance doors



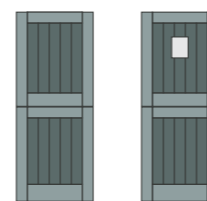
Type 104 Type 106 Type 110 Type 111 Type 112 Type 154 Type 155 Type 156 Type 157

### Single doors



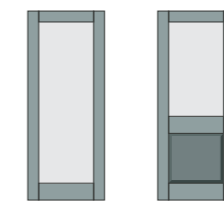
Type 101 Type 102 Type 103 Type 104 Type 105 Type 107 Type 108 Type 109 Type 151 Type 152 Type 153

### Stable doors



Stable 201 Stable 202

### French doors



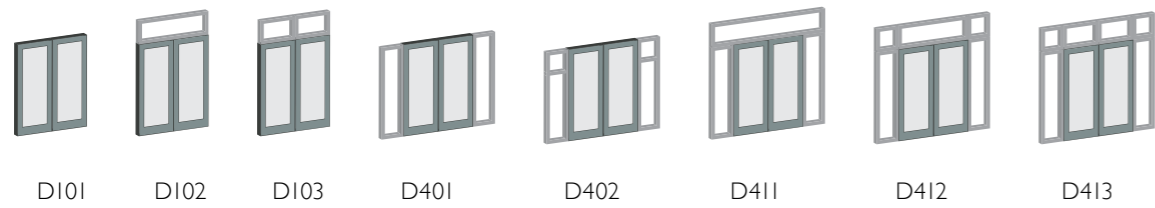
Patio 501 Patio 502



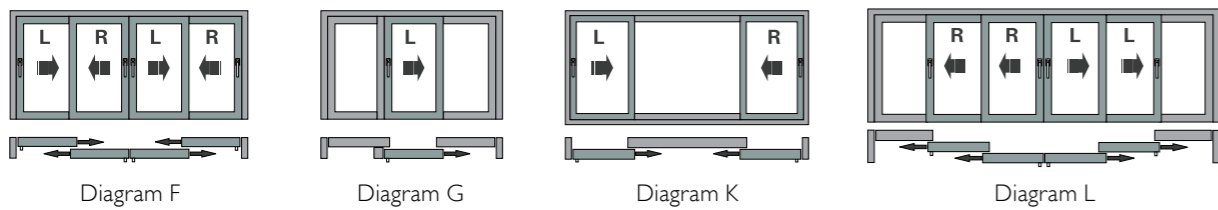
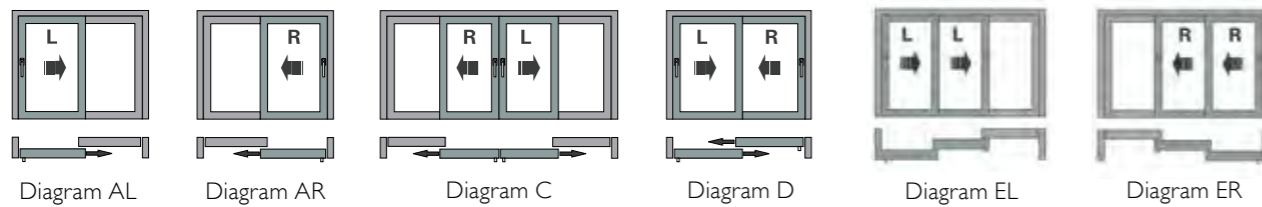
Entrance doors



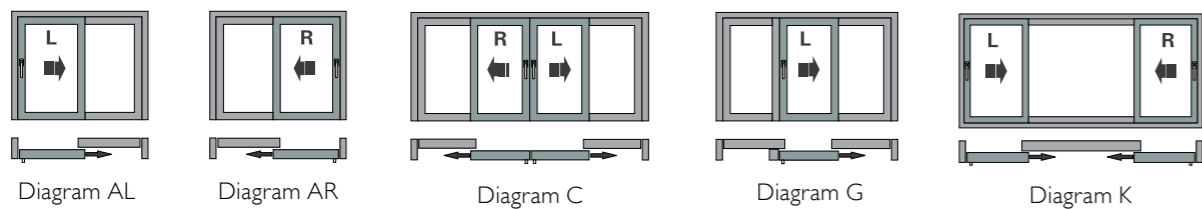
French doors



Sliding doors

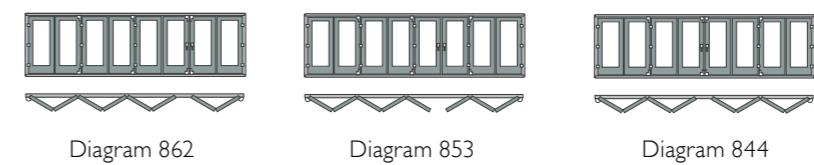
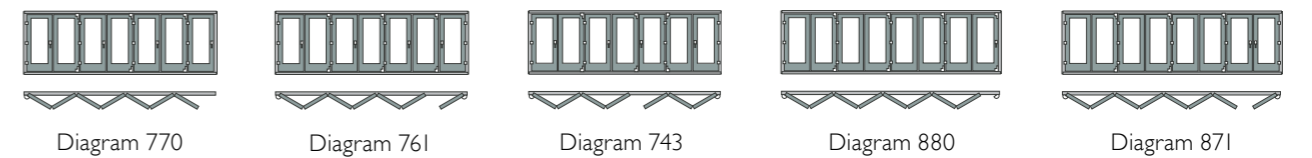
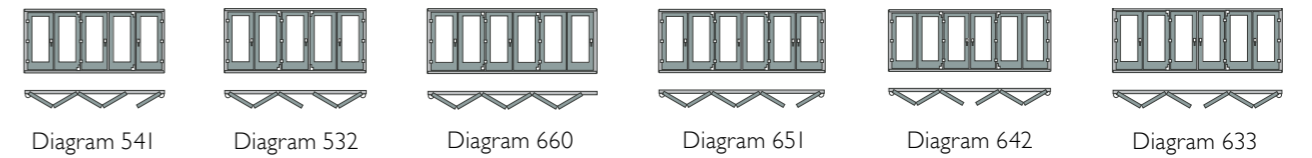
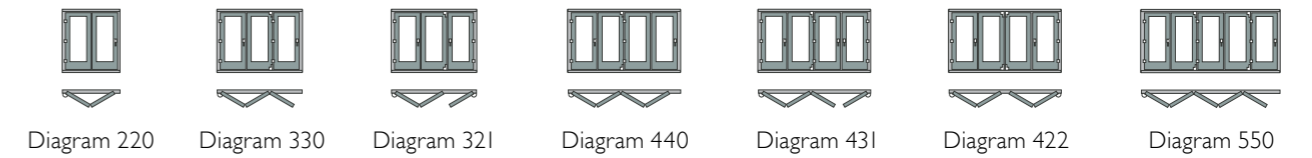


Tilt & sliding doors



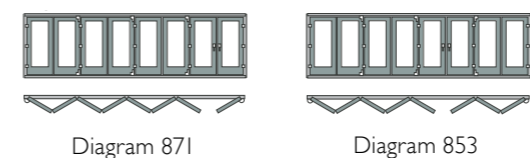
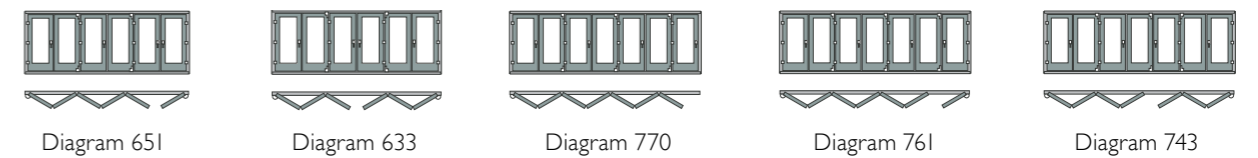
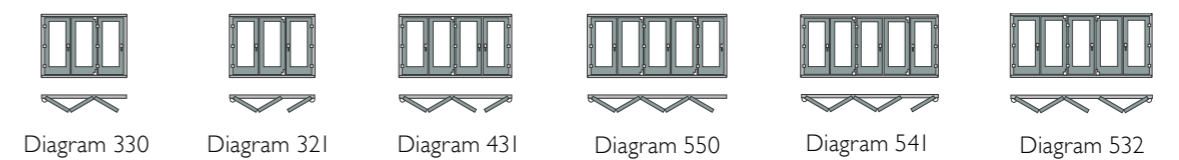
Bifold doors

Outward Opening



Bifold doors

Inward Opening



# Timber Options

All of our timber is sustainably sourced and we can provide full FSC® chain of custody for our windows and doors upon request.



## Engineered Redwood

Engineered Redwood is an excellent timber species for products requiring a paint finish because the reduced moisture uptake and increased stability of the timber produces a substrate which enhances the coating's life span. Being free of knots and imperfections not only enhances the aesthetic effect but also prevents the risk of resin exudation damaging the coating.

## Grandis Hardwood

Grandis Hardwood provides a stable and durable substrate and is supplied as a three ply laminated material for extra stability. With its clear faced attractive grain pattern we manufacture all doors from Grandis as standard. We also recommend that Grandis is used to manufacture those products that require a stain finish.

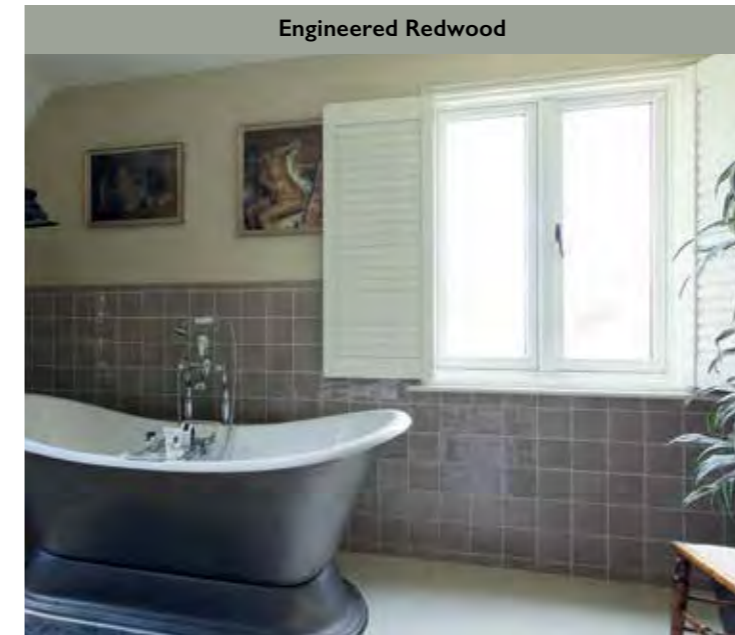
## European Oak

European Oak is a very strong, durable hardwood that benefits from an attractive grain and colour. In the past, high quality windows and doors have been made from European Oak due to its durability. However, it has a tendency to move which can cause failure of the coating system and the glazing units. To overcome these problems we use knot free laminated European Oak which provides a greater amount of stability.

## Accoya®

Accoya® has earned the highest durability rating of any timber. It is our timber of choice in the manufacture of external profiles because it provides a durable, stable base for our advanced paint system, promoting a long lasting, low maintenance finished product. For products manufactured entirely from Accoya® we provide a 50 year preservative guarantee and also extended coating guarantees - 12 years for paint and 9 years for stain. We recommend Accoya® for coastal areas.

Project examples of our timber:










# Paint & Stain Colours

The type of coating and how it is applied significantly contributes to the longevity of any timber window or door. To avoid any timber window or door requiring laborious annual maintenance, we have spent years researching the application of timber coatings.

The outcome is a sophisticated coating system and the best possible environment for coating application. Our advanced four stage coating system provides maximum protection to the timber, whilst allowing it to breathe and let its natural beauty show through.





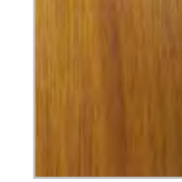




We offer the following standard finishes, which are a collection of our most popular paint and stain colours.

### Paint colours\*

					
<b>Traffic White</b> RAL: 9016	<b>Pure White</b> RAL: 9010	<b>Cream</b> RAL: 9001	<b>Oyster White</b> RAL: 1013	<b>Light Ivory</b> RAL: 1015	<b>Night Blue</b> RAL: 5022
					
<b>Pebble Grey</b> RAL: 7032	<b>Cement Grey</b> RAL: 7033	<b>Pastel Turquoise</b> RAL: 6034	<b>Mint Turquoise</b> RAL: 6033	<b>Pale Green</b> RAL: 6021	<b>Jet Black</b> RAL: 9005

By applying our coatings in such a precise way we are able to derive maximum performance which enables us to provide, as standard, a 10 year guarantee for paint finishes and a 7 year guarantee for stain finishes.

### Stain colours^

					
<b>Natural Oak</b> (on Grandis Hardwood)	<b>Dark Oak</b> (on Grandis Hardwood)	<b>Walnut</b> (on Grandis Hardwood)	<b>Ebony</b> (on Grandis Hardwood)	<b>Light Oak</b> (on Grandis Hardwood)	<b>Teak</b> (on Grandis Hardwood)
					
<b>Mahogany</b> (on Grandis Hardwood)	<b>Natural Oak</b> (on European Oak)	<b>Clear</b> (on European Oak) For use on inside only			

## Design customisation

We can provide almost any colour paint or stain finish. If the colour you need to match is not included in our standard options, then we can match to a physical sample or to an existing RAL, Natural Colour System or British Standard colour reference.



**Dual colour finish**

We can provide dual colour windows and doors, with a different colour inside to out, or frame to sash.



\*Due to print variations these colours may vary, please contact us for a physical paint sample

^Due to different device monitor calibrations, the actual colours may vary from the sample pictures shown. If you would like a sample please contact us.

# Glazing Options

Glazing plays an extremely important role in the overall performance of a window. As standard, our timber windows and doors are supplied with a high performance double-glazing system optimised for thermal efficiency, high light transmittance and acoustic performance.

To meet your precise project requirements, we also offer a broad selection of glazing options and accessories which are summarised below:

## Enhanced thermal performance glazing

We can apply different glass coatings to reduce the U-value. In addition, all windows and doors in the Traditional Range can be supplied with triple glazed units.

## Acoustic glass

There is a wide range of acoustic glass configurations that allows us to achieve excellent acoustic reduction. Specialist laminates are also available.

## Decorative glass



We can supply coloured, leaded and stained glass finishes. For property entrances we can incorporate sandblasted/coloured glass to bespoke designs to accommodate, for example, house name or number.

## Safety & security glass

We offer both toughened safety glass (the toughening process increases strength and safety) and laminated security glass. For enhanced security, it is recommended that all windows and doors located at ground level incorporate laminated security glass.

## Solar control glass

Allows heat gain from the sun to be matched to the requirements of a building.

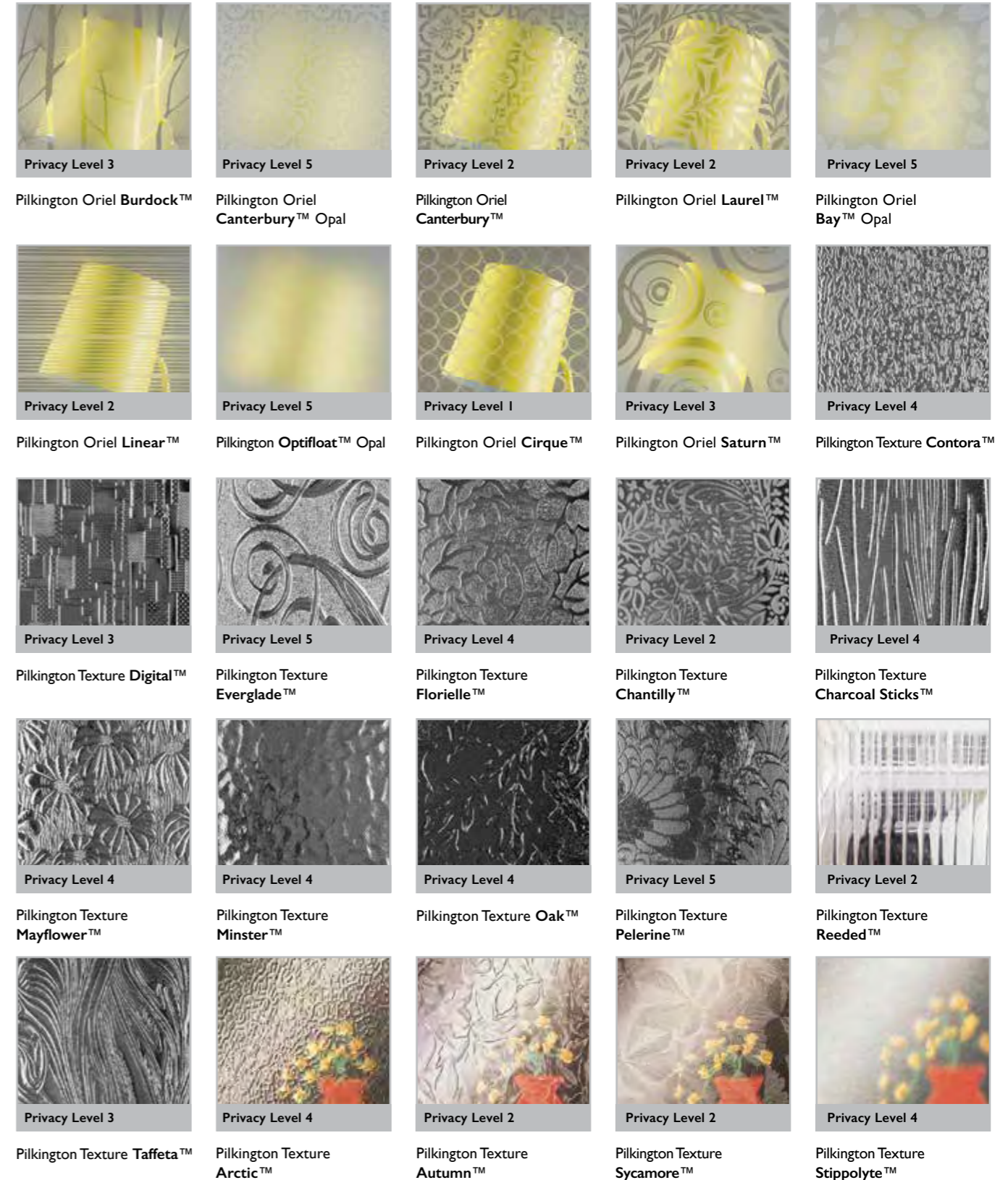
## Integral blinds



Upon request we can supply our windows and doors pre-fitted with integral blinds that can be operated remotely. This option can easily be integrated with existing home automation systems.

## Obscure glass

We offer a large selection of obscure glass patterns, each of which have a privacy level rating based upon the degree of obscurity (with privacy level 5 being the highest).



# Performance Data

Through excellent design, precision manufacturing, advanced coatings and a commitment to the highest levels of quality, our windows and doors are optimised for long life performance. The following tables summarise our current performance data for the standard designs within the Traditional Range.

## Window performance information

	Casement		Sash		Tilt & Turn		Pivot	
	As Standard	Best	As Standard	Best	As Standard	Best	As Standard	Best
<b>Thermal</b>								
U-Value	1.3	0.9	1.4	0.9	1.4	0.8	1.4	0.9
Energy Rating	A	A++	A	A++	A	A++	A	A++
g-Value	71%	As Required	71%	As Required	71%	As Required	71%	As Required
LT	81%	As Required	81%	As Required	81%	As Required	81%	As Required

### Acoustic

Rw	30dB	41dB	34dB	44dB	36dB	44dB	30dB	41dB
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### Weather

Classification	2000 (BS6375 Part 1)	2000 (BS6375 Part 1)	2000 (BS6375 Part 1)	2000 (BS6375 Part 1)
Air	Class 4 (EN 12207:2000)	Class 4 (EN 12207:2000)	Class 4 (EN 12207:2000)	Class 4 (EN 12207:2000)
Water	Class 7A (EN 12208:2000)	Class 7A (EN 12208:2000)	Class 7A (EN 12208:2000)	Class 7A (EN 12208:2000)
Wind	Class C5 (EN 12210:2000)	Class C5 (EN 12210:2000)	Class C5 (EN 12210:2000)	Class C5 (EN 12210:2000)

### Operation & Strength

Classification	Pass (BS6375 Part 2)	Pass (BS6375 Part 2)	Pass (BS6375 Part 2)	Pass (BS6375 Part 2)
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### Security

PAS 24/Part Q	Pass (as option)	Pass (as option)	Pass (as option)	-
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### Sustainability

FSC Chain of Custody	Yes	Yes	Yes	Yes
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## Door performance information

AR = As Required

	Entrance, Single, Stable & French (Open In)		Entrance, Single, Stable & French (Open Out)		Sliding		Sliding (Tilting)		Bifold (Open Out)		Bifold (Open In)	
	Standard	Best	Standard	Best	Standard	Best	Standard	Best	Standard	Best	Standard	Best
<b>Thermal</b>												
U-Value	1.4	1	1.4	1	1.4	1	1.3	0.9	1.4	1	1.3	0.9
Energy Rating	-	-	-	-	-	-	-	-	-	-	-	-
g-Value	71%	AR	71%	AR	71%	AR	71%	AR	71%	AR	71%	AR
LT	81%	AR	81%	AR	81%	AR	81%	AR	81%	AR	81%	AR

### Acoustic

Rw	35dB	54dB	35dB	44dB	35dB	44dB	-	35dB	44dB	-
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### Weather

Classification	1200 (BS6375 Part 1)	1200 (BS6375 Part 1)	1200 (BS6375 Part 1)	2000 (BS6375 Part 1)	1200 (BS6375 Part 1)	2000 (BS6375 Part 1)
Air	Class C (EN 12207:2000)	Class C (EN 12207:2000)	Class C (EN 12207:2000)	Class 4 (EN 12207:2000)	Class C (EN 12207:2000)	Class 4 (EN 12207:2000)
Water	Class 4A (EN 12208:2000)	Class 4A (EN 12208:2000)	Class 4A (EN 12208:2000)	Class 7A (EN 12208:2000)	Class 4A (EN 12208:2000)	Class 7A (EN 12208:2000)
Wind	Class A3 (EN 12210:2000)	Class A3 (EN 12210:2000)	Class A3 (EN 12210:2000)	Class C5 (EN 12210:2000)	Class A3 (EN 12210:2000)	Class C5 (EN 12210:2000)

### Operation & Strength

Classification	Pass (BS6375 Part 2)	Pass (BS6375 Part 2)	Pass (BS6375 Part 2)	Pass (BS6375 Part 2)	Pass (BS6375 Part 2)	Pass (BS6375 Part 2)
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### Security

PAS 24/Part Q	Pass (as option)	Pass (as option)	Pass (as option)	Pass (as option)	Pass (as option)	Pass (as option)
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### Sustainability

FSC Chain of Custody	Yes	Yes	Yes	Yes	Yes	Yes
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# Our Approach

Our approach is to devise a practical solution to a need, rather than shoe-horn an existing product into a unique design requirement. If you feel that the Traditional Range does not fit your project requirements then our Historic or Contemporary timber windows and doors might be more suitable.

As we manufacture all of our windows and doors here in the UK, you are very welcome to visit our factory and see the products for yourself. Alternatively visit [www.georgebarnsdale.co.uk](http://www.georgebarnsdale.co.uk) to view our Historic and Contemporary Ranges, or request a brochure.



## Historic Range

Designed for listed buildings and conservation areas, our Historic Range strictly adheres to authentic design details and original glazing methods.



## Contemporary Range

Offering simple, clean, modern designs our Contemporary Range features large panes of efficient triple-glazing or acoustic double-glazing as standard.

For more information please  
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