

GEORGE BARNSDALE
British made since 1884

Entrance Doors



Lasting Performance Through Innovation
Timber Windows & Doors

The beauty, elegance and strength of timber is at its best when used as the entrance to a property. Its durability provides high security and its natural characteristics enhance any building.

At George Barnsdale we have been designing, manufacturing and perfecting our range of doorsets for over 125 years. All of our products have been extensively tested to provide high quality coupled with excellent performance.

We offer a wide range of options and we can manufacture almost any design. Choose from different configurations, fittings, glazing units and insulated timber panels and a wide range of profiles. The doors can also be matched into our casement range to allow them to be seamlessly coupled.

Due to the wide range of options available it is often very difficult to choose the exact design. For this reason, we have included a number of door designs that can be specified or they can be used as a starting point for further customisation.

All of our entrance doors provide:

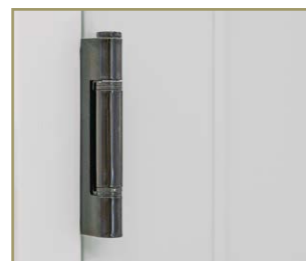
- A premium product manufactured from the finest materials and retaining traditional period features.
- Engineered timber providing excellent durability, all from certified, sustainable sources.
- Market leading guarantees with a 10 year paint guarantee as standard.
- Excellent weather performance with third party test validation.
- High quality hardware and design features providing enhanced security.
- Design optimised using computer modelling for excellent thermal performance.

This brochure provides you with information on the door features and the main options that we offer, with a wider range of options available on our website. If you have any additional requirements, we have a wealth of experience in customising our products, whilst maintaining the performance characteristics.

Our **Company brochure** and website provide further detail on the products, materials, processes and performance of the George Barnsdale range.

www.georgebarnsdale.co.uk

Adjustable Hinges



Using advanced adjustable hinges the doors can be set up to ensure that they open easily (doors usually require a small amount of adjustment after installation).

Astragal Bars



These are matched to the door profile and glazing bead. It is available with or without interbar, with the option to match the spacer bar. External bars are manufactured from Accoya® and dowelled into the door for exceptional performance.

Multipoint Locking



Modern locking hardware is used to provide multipoint locking along the opening face providing excellent security. The multipoint locks also support the door along its length, which prevent movement providing trouble free operation and also maximising the life of the door.

Internally Beaded



All doors are glazed from the inside providing enhanced security and improved weather performance as well as protecting the bead resulting in longer life. The doors are also drained and vented to ensure the glazing system is protected allowing it to provide long term performance.

Entrance Door Types



We are able to supply inward and outward opening doorsets that fit flush into the frame, providing excellent performance as standard.

Rebated doors can also be provided for improved performance, triple glazing or to match an existing door.



Door as shown: Single door with midrail and vertical rail. Sandblasted obscure glass to upper door and raised and fielded panels to lower door. Fully finished in white with black Kirkpatrick handle.

Restrictor



Outward opening doors are supplied with a restrictor to limit opening to 90 degrees, preventing damage from the door being blown open against the outside wall.

Hard Wearing Cill



All doors are provided with a teak stained cill as standard, providing a hard wearing finish that is not easily damaged by foot traffic. Low threshold versions are available.

Double and Triple Glazing



Our glazing units provide outstanding thermal and acoustic performance. Double glazing is available across all our doors, triple glazing is currently available on rebated doors.

Insulated Panels

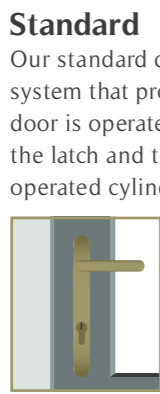


All door panels are insulated which helps to improve the thermal efficiency of the doors.

Locking Systems



External View



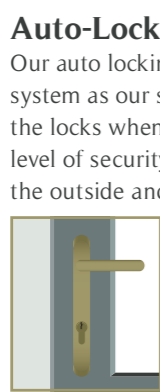
Internal View

Standard

Our standard door features a multipoint locking system that provides excellent levels of security. The door is operated by a handle on both sides to operate the latch and the multipoint locks and has a key operated cylinder to deadlock. We have a wide range of styles that allow you to customise the appearance of the door to your requirements.



External View



Internal View

Auto-Locking

Our auto locking door has the same multipoint locking system as our standard door, but automatically triggers the locks when the door is shut, providing an extra level of security. The door is opened with a key from the outside and by a handle on the inside. This is a very common choice for apartments and shared access doors, but is also an attractive and practical option for many other applications. As with all our doors, they can be customised with our range of accessories.



External View



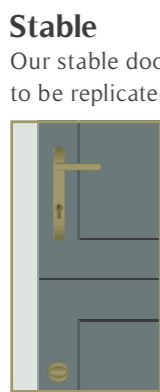
Internal View

Heritage

Our heritage door system replicates the higher locking found on a rim lock system. The door is operated by the key on the outside and a thumb turn on the inside, providing the original appearance with the full capabilities of a multipoint locking system. The doors can be specified with a range of accessories, such as door knobs and escutcheons to customise the appearance to your requirements.



External View



Internal View

Stable

Our stable door system allows the traditional design to be replicated, whilst retaining all the benefits of a high quality multipoint locking system. The top door is operated in the same way as our standard door with a handle each side. The lower door has a cylinder operated by key on the outside and thumb turn on the inside, which controls whether the two doors operate as one or only allowing the top door to open.

Hardware Ranges

Handle Options

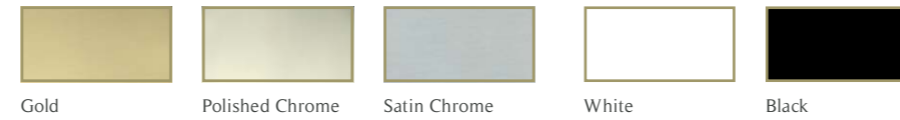
Additional Hardware

Original

Our Original hardware range is designed to provide the highest levels of performance and operation. They have a traditional design and a wide range of colours that allows them to match in with a range of styles and building types.



Affinity Standard



Gold

Polished Chrome

Satin Chrome

White

Black



Knob*



Escutcheon & Pull*



Numbers



Knocker & Spy Hole



Knocker



Letterbox

* Not available in White or Black

Period

Our Period range features hardware manufactured to traditional designs using many original techniques and high quality materials. All items are crafted by leading UK hardware manufacturers and provide an exceptional finish.



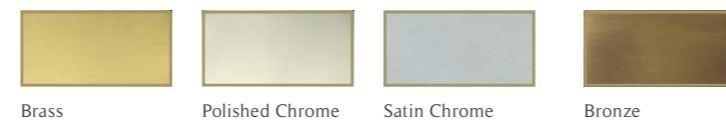
Allart - 1485 Standard



Allart - 1685 Option



Allart - 1461 Option



Brass

Polished Chrome

Satin Chrome

Bronze



Knob



Escutcheon & Pull



Numbers



Knocker



Letterbox

Classic

Our Classic range offers the same features as the Period range, but with designs that provide a more modern and cleaner look.



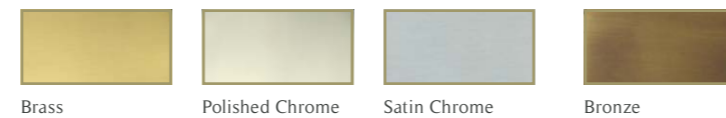
Allart - 4035 Standard



Allart - 5265 Option



Allart - 4011 Option



Brass

Polished Chrome

Satin Chrome

Bronze



Knob



Escutcheon & Pull



Numbers



Knocker



Letterbox

Foundry

Our Foundry antique wrought iron hardware utilises traditional materials and manufacturing processes that provide a unique finish on every part. All items are crafted by leading UK hardware manufacturers.



Kirkpatrick - 2461 Standard



Kirkpatrick - 2460 Option



Kirkpatrick - 0879 Option



Black

Pewter



Knob



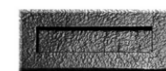
Escutcheon



Numbers



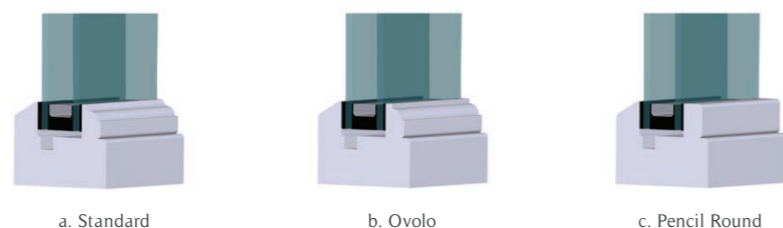
Knocker



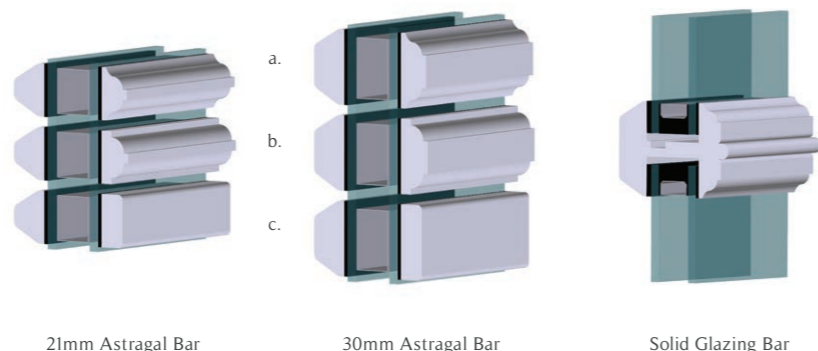
Letterbox

Glazing Bead & Sash Bar Options

Beading:
Our beads are available as Standard, Ovolo and Pencil Round. All sashes in the traditional range are beaded internally to improve security and weather performance and result in a window with longer life.



Astragal Bars:
These are matched with the outside sash profile and internal glazing bead. They come with an internal glazing bar as standard.



Solid Glazing Bars:
These are available in any layout and are specified at 43mm wide as standard. This width can be increased if required.

Glass

We have a wide range of options to suit any special requirements you may have including:

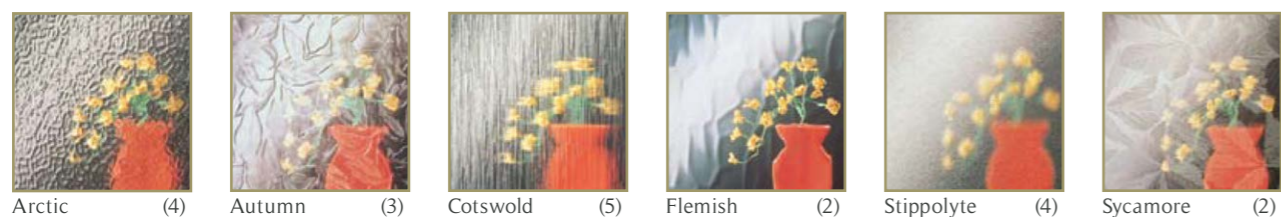
Toughened Safety Glass: Toughening process increases strength and safety.

Laminated Security Glass: Laminate provides additional security over a toughened unit.

Acoustic Glass: Increases already high level of sound insulation using specialist laminates and thicker glass.

Solar Control Glass: Allows heat gain from the sun to be matched to the requirements of a building.

Obscure Glass: Available in a wide range of patterns, with a sample shown below (the number in brackets indicates the obscurity on a 5 point scale with 5 being the highest). Additional patterns include sandblasted, Oriel and Oriel Textured (a sandblasted pattern on each float of textured glass). Glass can also be painted and tinted. For the full range please visit www.georgebarnsdale.co.uk



Lead: We offer a wide range of options including widths (6, 9 and 12mm), colours (bright and antique) and styles (including square and diamond patterns).

Stained Glass: We can provide coloured glass to your requirements (a photo of an existing design or a drawing is sufficient). These can be supplied with or without lead outlines.

Other Options: We can install all available glazing systems, so please enquire if you have any special requirements. These may include integral blinds or sandblasted/coloured glass to a specific design (for example, your house number or name).

Timber

Our entrance doorsets are manufactured from engineered timber from sustainable sources as standard. The timber is approved by FSC® and is selected for its outstanding performance and environmental credentials. As standard we use:

Frames & Sashes:
FSC® Engineered Redwood is free from knots and provides excellent stability and durability.

Cill & Cill Extension:
FSC® Hardwood for enhanced durability (the cill extension gets the most weathering).

Doors:
FSC® Grandis Hardwood provides a clear knot free face for the wide door rails and excellent stability preventing the door from excessive movement or warping.

Coupled with our advanced coating system, this results in a product that retains the characteristics of the timber and will last indefinitely with minimal maintenance.



FSC® Engineered Redwood

We can also manufacture entrance doorsets in the following timbers if required - see our **Company brochure** for more information.



FSC® Grandis Hardwood



FSC® European Oak



FSC® Accoya®

Standard Coating Options

Our advanced coating system has been developed to provide maximum protection, allow the timber to breathe and let the characteristics of the timber show through. This allows us to give a 10 year guarantee on paint finish.



Colour: We can provide almost any paint colour or stain finish. All we require is a RAL Classic, RAL Design, Natural Colour System (NCS) or British Standard (BS 4800 or BS 381C) colour or an actual sample.

Dual Colour: We can provide dual colour windows with a different colour inside to out or frame to sash. This also allows for the frame and sash to have a different dual colour specification if required.

Paint Finishes*:



Stain Finishes*:



*please note that actual colours may vary due to the print process - please contact us for a sample.

Guarantees

Our industry leading manufacturer backed guarantees:

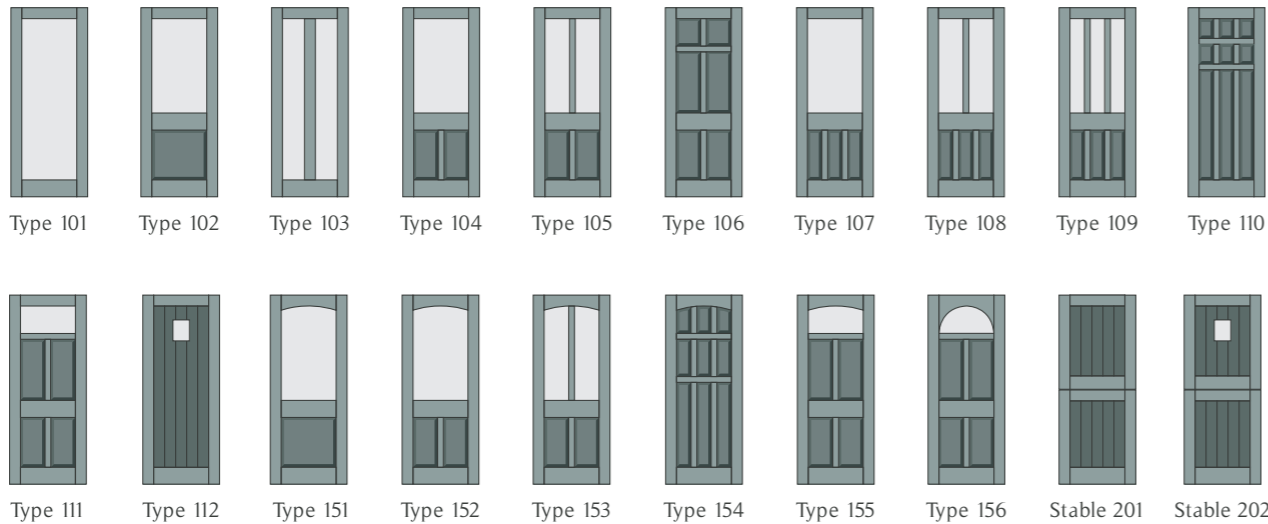


Configurations

Our manufacturing process allows us to produce almost any style of door and frame configuration, allowing you to get the exact product that you require. However, due to the wide range of options it is often difficult to understand the possibilities and decide on a design. For this reason we have defined a range of door and frame designs that may provide ideas and inspiration.

Door Styles

The following door styles are a selection of possible options. Different designs can be specified and also panels and glazing units can be interchanged as required. There are a wide range of sash bar/astragal bar options available to tailor the appearance further. All rail sizes are variable, so the door proportions can be adjusted as required.



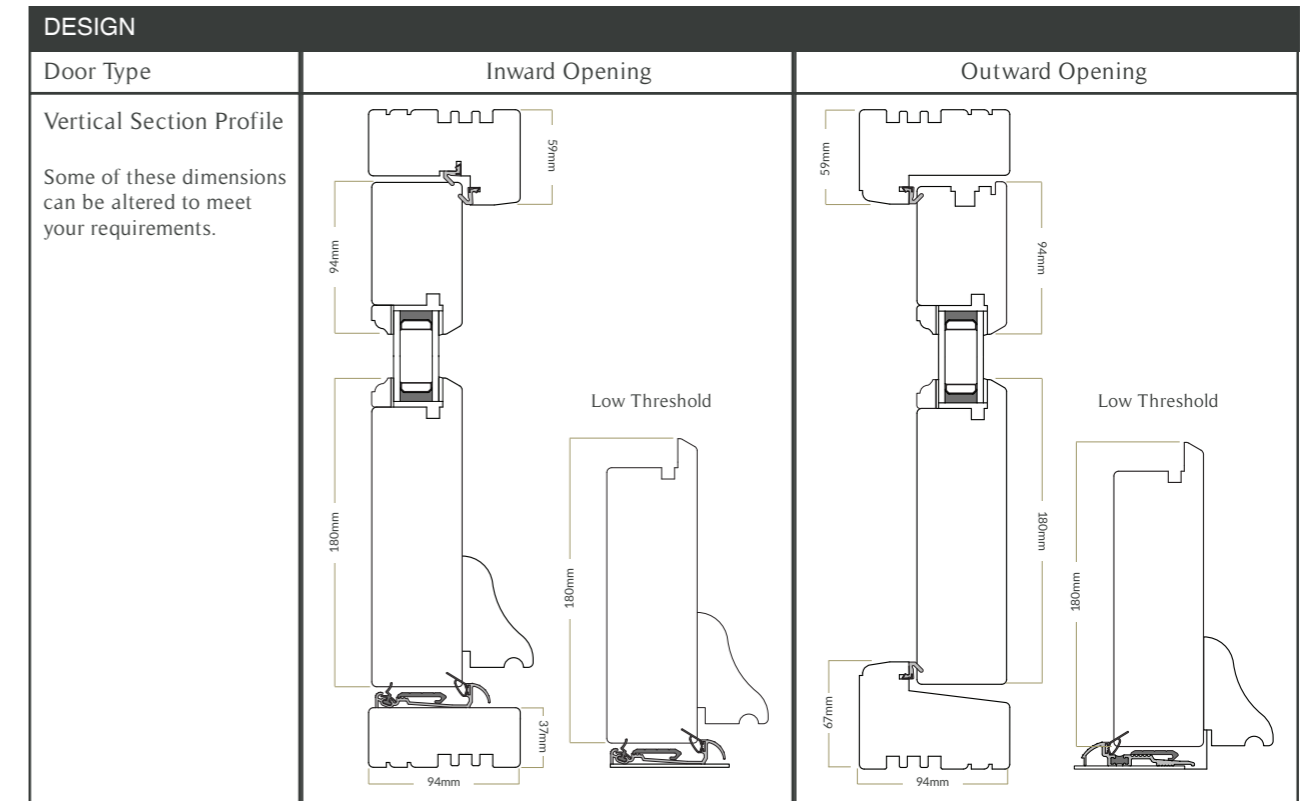
Doorset Layouts

For the doorset, the doors can be combined with fan lights and side lights as required. Fanlights can have opening sashes and side lights can have a fixed or opening sash or be direct glazed to allow more glazed area. The doorsets can also be matched to our casement window range allowing any design to be coupled to the doorset.



Please see the **Patio Doorset brochure** for French door options.

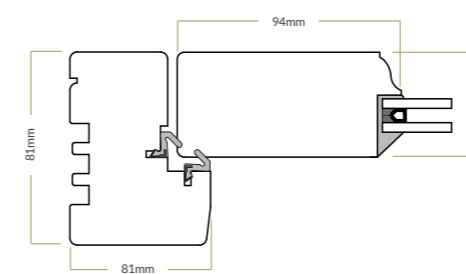
Sectional Details/Performance



THERMAL		
U_w (Standard)	1.6 W/m ² K	1.5 W/m ² K
U_w (Best)	up to 1.0 W/m ² K (double rebated)	up to 1.0 W/m ² K (double rebated)
Energy Rating	N/A (current energy rating scheme applies to windows only)	

SECURITY	
Can conform to	PAS 24

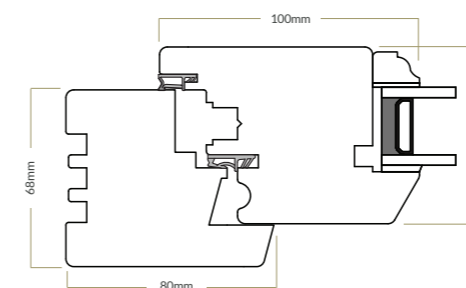
Historic Range



This range has been developed to satisfy aesthetic/planning requirements, where standard double glazing is not permitted. There are a wide range of profile options for single and narrow double glazed units using traditional moulds, as well as our standard internally beaded glazing option. All of the standard features and options are available and naturally whilst this product does not boast the same thermal retention of our traditional range it still performs extremely well.

See our **Historic Range brochure** for more information.

Contemporary Range



Developed to offer a range of products to suit modern, contemporary design requirements, the contemporary door range has the same performance characteristics as the traditional range, with the addition of a 68mm rebated doorset providing enhanced thermal performance with a triple glazed unit option.

Halam, Newark

Working in partnership with one of our approved partner installers, George Barnsdale manufactured windows and doors for this prestigious residential property in Nottinghamshire.

Project Details

Product:	Spiral balance sash windows, french and entrance doors.
Timber:	Window and door frames from Engineered Redwood. Doors from Grandis Hardwood.
Finishes:	Off White, RAL 7032 & Olive Grey, RAL 7002.
Architect:	Philip Butler Architect Ltd.
Client:	Private residential client.



Project

In partnership with one of our approved partner installers, George Barnsdale were tasked with the manufacture of replacement timber windows and doorsets for a property belonging to the Managing Director of Birch Tree Homes.

The main requirement of this project was to convert a fairly modern house with standard casement windows into an attractive property with period features.

Our approved partner installer surveyed the property and provided us with their designs for the windows and doors including those needed for the orangery.

Using their designs, the George Barnsdale team manufactured 25 Spiral Balance Sash Windows and 8 French and Entrance Doorsets. The products were manufactured from softwood and finished in a mixture of off-white, RAL 7032 and RAL 7002 colours. Our approved installer also designed and installed the external mouldings and fascia boards for the orangery as well as the roofs.



The installation was carried out by three highly skilled installation teams and they achieved an impressive completion time of one week. Installation was arranged with the client's own builders to ensure minimal disruption and included the removal of old frames, the installation of the new stone cills and then the installation of the new windows.

The project resulted in a modern building being aesthetically transformed into a period property whilst still maintaining the benefits of high performance windows and doors.

To view more case studies incorporating entrance doorsets please visit www.georgebarnsdale.co.uk

About Us

At George Barnsdale, we have been making premium quality timber windows and doors since 1884.

Every window and door is designed, engineered and hand finished in the UK by our team of skilled craftsmen using the finest materials and state of the art robotic machinery.

Our technical team provide expert support and advice to ensure our products meet your aesthetic and performance requirements, enhance UK building regulations and reflect the character of your building. Investment in research, development and testing has enabled us to achieve the very highest levels in thermal, weatherproof, security and acoustic performance, in a range of products that have been sourced and manufactured in a sustainable way.

Credentials for Lasting Performance

Design:	Internally beaded for security and long life; Double and triple gaskets for class leading weather performance; Traditional designs matching period features with a specialist range for listed buildings (Historic Range) and modern buildings (Contemporary Range); Designs fully tested by UKAS approved third party test houses.
Timber:	Use of high quality engineered timber providing excellent durability and stability characteristics; Range of redwoods and hardwoods available; All timber sourced sustainably through FSC® scheme.
Paint:	Cutting edge robotic paint facility allowing precise control of paint application; advanced coating system providing excellent protection, whilst allowing the characteristics of the timber to remain visible; 10 year guarantee with no redecorating required available on most products (7 years for stain finish).
Glass:	High performance glazing with Saint Gobain Planitherm Total+, argon fill and warm edge spacer as standard; Many options including security, safety, acoustic, thermal, solar gain/reduction, obscure patterns, triple glazed units, slim units (including Pilkington Legacy and Histoglass); Internally beaded, drained and vented glazing systems for improved performance and life; All units tested to BS EN 1279 and supplied with a 10 year guarantee (except some slim unit options). Our glazing systems are supplied to a higher specification than the industry standard - for more information visit www.georgebarnsdale.co.uk/technical .
Fittings:	High quality fittings used as standard; Wide range of colour and style options; Products meet BS 7950 / PAS 23/24 requirements where applicable; All fittings covered by 5 year guarantee.
Thermal:	Optimised designs through thermal modelling by in-house BFRC simulator; Products can meet an A rating; First A rated timber window in UK; Window U-value and Window Energy Rating displayed on all quotations; Window U values less than 1 W/m²K available on most products; Passivhaus window option now available.
Wind/Water:	Double/triple seals around the window provide excellent sealing from weather; Investment in research, development and testing have optimised designs and extensive test data is available to validate performance.
Acoustic:	Draught seals and advanced glazing provides excellent noise reduction as standard. Our acoustic glass range can provide further improvements if required (test data in accordance with BS EN ISO 717-1 is available).
Security:	High security fittings supplied as standard; Increased security specification is available if required; Windows and doors can be manufactured to achieve PAS 24 (requirement for Secure by Design).

Certifications & Standards



GEORGE BARNSDALE

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