

GEORGE BARNSDALE

British made since 1884

Lasting Performance Through Innovation

Timber Windows & Doors

INTRODUCTION

Timber has always been the material of choice for attractive buildings due to its warm, tactile appearance and the ability it provides to alter its profiles and dimensions to create the exact design that is required.

At George Barnsdale, we have been making premium quality timber windows and doors in our Lincolnshire based factory since 1884. We have built our reputation on providing beautiful products of the highest quality with an uncompromising attitude towards high performance and long life.

Through substantial investment in research, development and testing we have created a range of windows and doors that excel in all areas of performance and have extensive test data (all from third party, UKAS approved test houses) ensuring that you have the confidence that we can back up our claims. This, coupled with our accreditations for quality, performance and sustainability, provide all the credentials to give you the confidence that our products perform to the highest levels.

Product Range: Pages 4 to 9 provide an overview of our range of products including:

The Traditional Range: Our main product range offering high performance products with a wide range of options allowing them to meet your specific requirements including the ability to match period features.

The Historic Range: A range of products designed specifically to meet the stringent planning requirements common for listed buildings and conservation areas. With a focus on achieving high performance, many of the compromises have been overcome, whilst accurately matching the original design details.

The Contemporary Range: A range of products designed to enhance the characteristics of timber that allow it to suit modern design. Updated profile designs, coupled with the latest window fittings have allowed us to provide a range of high performance products with the very latest in functionality.

The Bespoke Products: We are also able to extensively customise our products to meet any unique requirements you may have. Our flexible automated manufacturing processes often allow these to be done very economically and our extensive test data allows us to retain many of the performance characteristics of our main product ranges.

Environment: Pages 10 to 11 demonstrate our commitment to providing energy efficient products, manufactured from sustainably sourced and certified materials, in a factory that is continually reducing its environmental footprint.

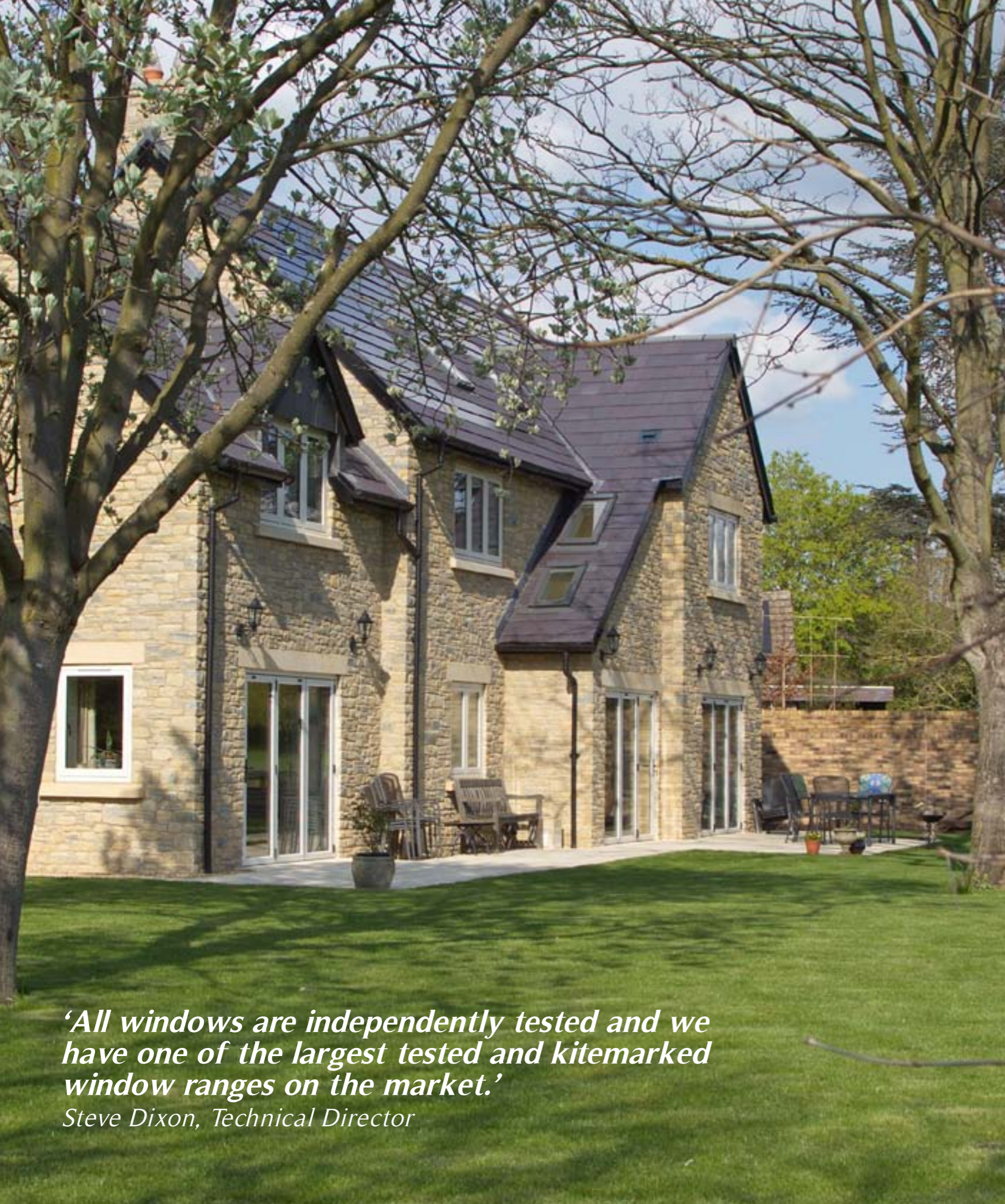
Technical: Pages 12 to 15 provide more detail about the technical features of the products, their performance and our unique manufacturing processes.

Service: Pages 16 to 17 give more information about the ordering process and the installation services we offer.

Further Info: Pages 18 to 19 provide information on the current UK building regulations and more detail on George Barnsdale, including details on the credentials that set us apart from the competition.

This brochure provides an overview of our products, service and company values. It should be used alongside our product brochures, which provide more detailed information on the specific features and options. Additionally, our website, www.georgebarnsdale.co.uk, has further information to ensure that you can find everything you require.





‘All windows are independently tested and we have one of the largest tested and kitemarked window ranges on the market.’

Steve Dixon, Technical Director

THE TRADITIONAL RANGE - WINDOWS

The appearance of traditional casement and sash windows has stood the test of time and we are proud to still be producing windows that the company founder, George Barnsdale himself would recognise.

Investment in design and development, alongside advances in materials and production techniques have enabled us to maintain the aesthetics of the window, whilst improving performance to the highest levels.

Our fully tested window designs include a wide range of options, which allows the windows to be customised to match any period features and design requirements without any loss in performance. All windows are independently tested and we have one of the largest kitemarked window ranges on the market. You can choose from:

Casement Windows

A range of outward opening casement windows, all with multipoint locking, double draught-proofing and exceptional thermal performance. We offer flush and stormproof casement windows.

Flush: A traditional pre-1950's casement window with the option of being fully reversible for easy cleaning from the inside.

Stormproof: A traditional post 1950's casement window providing an additional overlap between sash and frame for improved weather performance.

Sliding Sash Windows

A range of sliding sash windows, all with triple draught-proofing seals and exceptional thermal performance. We offer traditional box, spiral balance, and tilting spiral sliding sash windows.

Traditional Box: Traditional cord and weights to perfectly match the original windows.

Spiral Balance: Spring balances providing narrower frame profiles.

Tilting Spiral: Spring balances with tilting functionality for easy cleaning from the inside.

Tilt & Turn Windows

A range of inward opening tilt and turn windows with multipoint locking, double rebated profiles and exceptional thermal performance. These windows can be supplied as tilt & turn, turn only or tilt only.

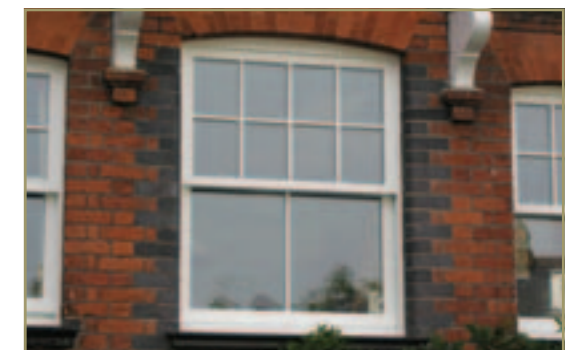
Pivot Windows

A range of windows allowing the sash to pivot along either the horizontal or vertical axis, perfect for large sashes and where cleaning from the inside is important. It also allows very large heavy sashes to open.

Within each window range we have a wide variety of styles, opening types, profiles, glazing, timber and ironmongery options, making each window bespoke in design and unique to your property. Detailed information on these options is available in our product brochures or on our website - www.georgebarnsdale.co.uk



Bay window featuring a traditional transom drip - one of a limitless range of styles.



Spiral balance sliding sash providing a smooth sliding action with excellent weathersealing.

THE TRADITIONAL RANGE - 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 developed our range of doors extensively, to provide high levels of security as well as excellent thermal and weather performance.

As with all of our products there is a wide variety of options and we can match to almost any design that you desire. To help you choose from the options or to use them as a starting point for your bespoke design, please refer to our Entrance Doors and Patio Door Brochures, or visit our website - www.georgebarnsdale.co.uk

Entrance Doorsets

A range of inward and outward opening entrance doors, all with multipoint locking and fully adjustable ironmongery, excellent weatherproofing and thermal performance, that can meet virtually any design that you require.

Patio Doorsets

A range of patio doors using the very best available ironmongery to provide exceptional performance and ease of operation, including:

- French Doors:** Our entrance door range can also be provided as French door pairs with an endless range of options for sidelights, fanlights and other configurations.
- Sliding Doors:** Our sliding door range offers a range of opening types for both two and three row designs.
- Folding Sliding Doors:** Our folding sliding door range (also commonly referred to as bi-folding doors) includes both inward and outward opening doors and provides a huge range of configuration options.
- Tilting Sliding:** Our tilting sliding door range allows easy opening with the option to tilt for ventilation. Ideal for first floor Juliette balconies.

All our doors are fitted with high performance hinges and locking systems as well as being wind and weather tight.



Folding Sliding Doors - a neat, space saving arrangement for openings.



Inward opening door - available with an infinite number of layouts and a wide range of panel and glazing unit options.



THE HISTORIC RANGE

Historic buildings that have been listed or are in conservation areas often have specific design, material and manufacturing process requirements.

We have developed a range of products that accurately match the features of the original windows including a wide range of profiles, single glazing options (there are also narrow double glazed options), narrow frame and sash profiles and traditional glazing methods. These products maintain most of the performance characteristics of our main range including double draught seals for exceptional weather performance.

Our Historic Range consists of:

Casement Windows - A range of outward opening flush casement windows, all with the option of multipoint locking or traditional latches, modern concealed friction hinges or traditional lift-off hinges.

Sliding Sash Windows - A range of sliding sash windows, all with traditional fittings and triple draught seals.

Entrance Doors - A range of entrance doors, all with the option of multipoint locking or traditional locks, fully adjustable traditional hinges, as well as excellent weatherproofing. As with our Traditional Range products can be specified to match any design that you require, and you can choose either inward or outward opening options.

One of the key areas of development within the Historic Range has been the development of our glazing systems. We are able to offer a range of reliable high performance glazing systems backed up by long life guarantees. Working with planning authorities and conservation officers has allowed us to provide a wide range of approved double glazing options.

For more details see our **Historic Range brochure**, which provides details on the products, design profiles and examples of projects that we have been a part of.



Piccadilly, London.

THE CONTEMPORARY RANGE

Modern contemporary buildings have a very different identity to a traditional property, yet timber windows and doors can easily adapt to meet the specific aesthetic requirements.

Our contemporary range includes a choice of profiles, handles and fittings, coupled with the capability to match almost any layout, allowing us to meet all of your design criteria.

The Contemporary Range consists of:

Casement Windows - A range of flush and stormproof outward opening casement windows, all with multipoint locking, double draught seals and exceptional thermal performance.

Tilt & Turn Windows - A range of inward opening tilt and turn windows with multipoint locking, double rebated design and exceptional thermal performance. These windows can be supplied as tilt & turn, turn only or tilt only.

Pivot Windows - A range of windows allowing the sash to pivot along either the horizontal or vertical axis, perfect for where cleaning from the inside is important. It also allows for very large and heavy opening sashes.

Entrance Doors - A range of entrance doors, all with multipoint locking and fully adjustable ironmongery, excellent weatherproofing and thermal performance, that can meet virtually any design that you may require. Choose either inward or outward opening options.

Patio Doors - A range of patio doors, all using the very best available ironmongery to provide exceptional performance, both from a weatherproofing and operational point of view.

For more details see our **Contemporary Range brochure**, providing details on the products, profiles and ironmongery options, design ideas and examples of projects that we have completed.



Grand Designs Award 2010 Finalist. Newport Road, London, with George Barnsdale three leaf sliding doors.

THE BESPOKE RANGE

In addition to the wide range of options within our three window and door ranges, we have considerable expertise and experience in developing these products to meet the requirements of strict design specifications and planning requirements.

With significant investment in our processes and machinery we are able to modify our designs to meet these requirements whilst maintaining many of the performance features and using the same manufacturing processes to provide a custom product with all of the advantages of our standard product range. If required the modified design can be put through the same series of tests to validate this.



The Lancasters, Hyde Park, London.

The Lancasters, a development overlooking Hyde Park, London, required 800 windows and doorsets with a combination of single and double glazing. All windows and doors required development to meet the planning officers requirements and we were able to achieve this whilst maintaining the performance of our **Traditional Range**.



Earls Court Station, London.

Another example of where we have manufactured to bespoke design is the refurbishment of Earls Court tube station by Taywood Engineering and Cleshar Contract Services Ltd, which required replacement windows and doors to reproduce the shop fronts to strict requirements by English Heritage. George Barnsdale refurbished all the openings with new doors and sashes and manufactured special softwood single glazed casement windows for the rear of the building.

We have a large portfolio of projects and considerable in-house expertise that allows us to provide exceptional products and a service that ensures your project will run smoothly with the end result meeting all of your requirements. Our advanced software and machine integration allows us to provide this service at very competitive rates.

For more details on this see our **Bespoke Products brochure**.

ENVIRONMENT

By choosing timber as the base material for your windows and doors, you have already made a very positive decision in minimising the impact of your property due to the natural insulation of timber and its carbon storage capacity. By choosing timber from sustainable, certified sources, you also remove the risk of the negative aspects seen in the timber industry over recent decades.

At George Barnsdale we have all the benefits of using sustainably sourced engineered timber, but we have taken a holistic approach to sustainable window design and as a result provide a product that goes the extra step, as is summarised below.

Sustaining Forests

Forests play a vital role in managing the levels of greenhouse gases in the atmosphere. While the destruction of tropical rainforests upsets that delicate balance, the use of timber from sustainable sources helps restore it.

Trees absorb CO² from the atmosphere most efficiently while they are growing at a rate of 1 tonne per cubic metre of growth. For the same amount of growth, 0.7 tonnes of oxygen are released.

(Source: Edinburgh Centre for Carbon Management)

After they reach maturity, typically 80 to 100 years for a softwood tree, their CO² uptake slows and the trees become less efficient in carbon uptake. The debris on the forest floor also decays, releasing methane (one of the most powerful greenhouse gases) into the atmosphere. In a managed forest, mature trees are therefore harvested to make way for vigorous new trees. When trees are harvested, most of the stored carbon is transferred to wood products such as windows and doors. Planting new trees absorbs more CO² due to more vigorous growth of the new tree.

(Source: UK Forestry Commission / Wood for Good)

At George Barnsdale the timber that we use is approved by either FSC® or PEFC™ bodies and is selected for its outstanding performance and environmental credentials. Upon request we can provide products with individual chain of custody under the FSC® certification scheme.



Saving Energy Through Good Design

Timber is a natural insulator and when coupled with high performance glass offers excellent insulation against heat loss from your home.

At George Barnsdale we have been optimising our designs over recent decades to maximise this natural potential and starting with the UK's first A rated timber window, we now have the widest range of energy rated timber products in the country.

As well as excellent thermal performance, we have designed all of our products to last with little maintenance. The small amount of material and energy input required in the maintenance process and the fact that the windows can, with correct care, last for generations mean that the production inputs are recovered many times over.

Reducing Waste In Manufacture

Whilst lower than many other materials, the energy inputs into the manufacturing process are still significant and as such we have made factory efficiency a fundamental goal of our business. We recycle our waste products and closely monitor our energy consumption to reduce waste.

Currently on part of our site we use waste products to heat water providing hot air for our paint drying process and around the factory and this will soon be extended across the whole facility.

'At George Barnsdale we manufacture our windows and doors from sustainably sourced, certified timber as standard.'

Stephen Wright, Managing Director

TECHNICAL

Our windows last for years because of the way we build them. We choose stable timber, use advanced coatings and develop designs that maximise the potential of these materials. The result is a highly engineered product that requires minimal maintenance to continue looking good, year after year.

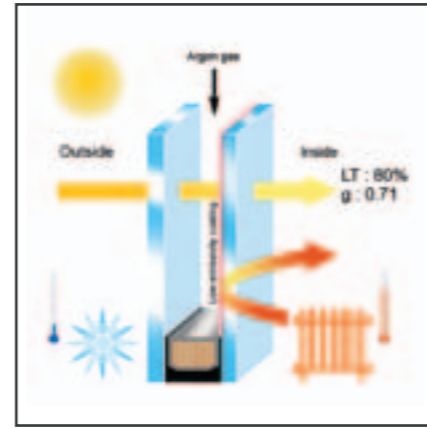
Glazing

All windows come as standard with a high performance glazing system optimised for thermal efficiency and a clear neutral appearance. The result is more light coming into your property, a clearer view and lower heating costs. When coupled with a warm edge spacer bar (the part that separates the two panes of glass) most windows are available with an A rating.

If astragal bars are required they are supplied with internal glazing bars providing an authentic look and the performance benefits of a large unit.

We have a wide range of options available including obscure patterns, acoustic reduction, solar reduction and enhanced thermal performance (a triple glazed system is available in all product ranges).

There is also a wide range of lead and coloured glass options available. Please see our website for further details - www.georgebarnsdale.co.uk



Paint

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.

Timber:

When selecting timber we not only look at stability and strength, but we also take into consideration how well it combines with our advanced coating system. We will only use timber from which we can manufacture beautiful windows and doors that are durable and require minimal maintenance.

Base flowcoat:

Firstly, the product is deluged with a specifically designed preservative combined with a basecoat which penetrates the timber, providing excellent protection against UV radiation. This process also provides the colour pigmentation required for stain finishes.

Mid flowcoat:

This stage involves the application of a second flowcoat, but this time the product is deluged with a clear solution which penetrates the timber to provide protection against moisture. This mid flowcoat provides a perfect base for the spray applied coats.

Mid coat:

We apply a first spray coat with special properties for protecting the timber and regulating its moisture, as well as providing an excellent surface for the adhesion of the top coat.

Top coat:

Finally we apply the top coat in the required colour, whereas for a stained finish, a second application of the primary spray coat is applied. The spraycoats are applied using a purpose built spraying robot and finished by hand by our skilled craftsmen.



This coating system has been developed to get the maximum performance from the coatings. As a result we can offer our industry leading guarantee across our range of products. Whilst this is restricted in a few cases (due to location or a small number of product options having restrictions) nearly all of our products will be supplied with the maximum 10 year guarantee period.



Profile Options

A range of traditional frame and bead profiles allow us to match the period features of your property. Our range of historic and contemporary windows and doors allow further choices to ensure you get exactly what you require.

Internal Beading

Glazed units with internal beading offer you greater security (the bead is not accessible to an intruder preventing it from being removed) and longer life (the bead is the weakest part of the glazing system, but as it is on the inside, it is kept away from the elements).

External Rounds

All external profiles have rounded edges to provide better paint adhesion and as a result a longer lasting window.

Ventilated Glazing Units

The sealed glazing unit stays dry and condensation free thanks to an innovative drainage and ventilation channel allowing the free flow of air around the unit.

Weather Tight Seals

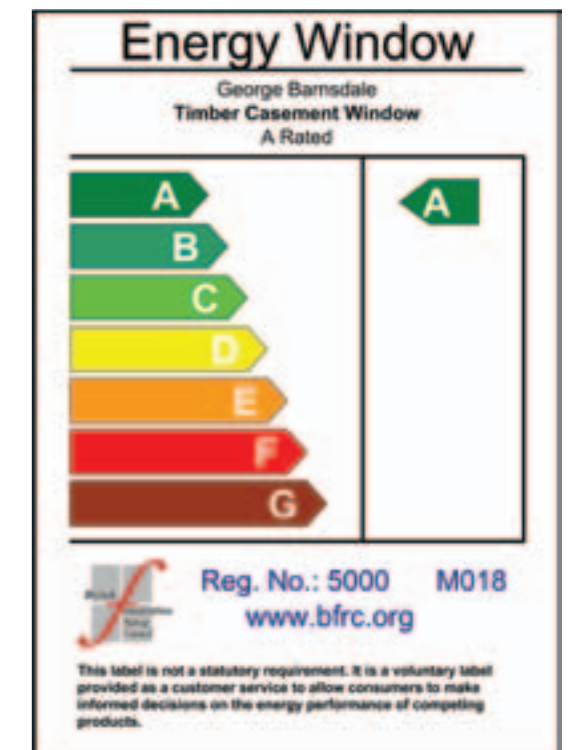
Dual or triple weather seals provide better insulation and improved weather tightness. Extensive development and testing have allowed us to optimise the seal design to provide the best performance.

Wide Choice Of Timber

For most projects, customers choose our standard Redwood WoodHeart®. Properly dried and handled, it's a stable and long-lasting product with natural resistance to fungi.

We also have a wide range of engineered hardwoods including European Oak and Sapele. Another popular option is Accoya®, a modified timber that is exceptionally resistant to moisture penetration

Window Energy Ratings



TIMBER

The specification of timber is essential for the long term durability of any timber window or door, as well as its effect on appearance, performance and the environmental impact. We have carried out considerable research on the different factors affecting the performance and environmental issues and are confident that we have found the best solution.

Our windows and doors are manufactured from engineered timber from sustainable sources as standard. All timber is approved by either FSC® or PEFC™ bodies and is selected for its outstanding performance and environmental credentials.



Frames & Sashes

As standard all frames and window sashes are manufactured from Redwood WoodHeart®, the heartwood taken from Nordic Scots pine trees (see diagram). By utilising this heartwood, we get very good durability and dimensional stability, as well as very good thermal performance.

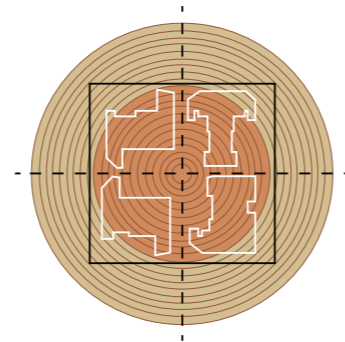
The reduced moisture uptake and increased stability of the timber produces a substrate which enhances the coating life span (this is key to a long life window, because if the coating remains intact the window will last indefinitely).

In addition it is engineered to be knot free, which along with the aesthetic effect, also prevents resin exudation, which will damage the coating.

The cill on doors and sliding sash windows and the cill extensions on all products (if required) are, due to increased exposure to weathering (both water and UV light), manufactured from FSC® sourced hardwood.



Redwood WoodHeart®



Red Grandis

Doors

Due to the larger door rail sizes, we use laminated Red Grandis, a hardwood selected for its consistent colour, appearance and grain texture, providing a clear face.

Other Options

It is possible to supply our products complete in Redwood WoodHeart® (usually only if a transparent finish is required), Red Grandis and in addition the following three options.



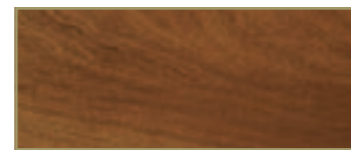
European Oak

In the past, high quality windows 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 insulating glass units. To overcome these problems we use knot free laminated European Oak which has FSC® Chain of Custody.



Accoya®

Accoya® is an exceptionally stable modified timber and has the highest durability rating. It provides the ultimate substrate for our coating system. Accoya also comes with FSC® Chain of Custody.



Sapele

Sapele is a very stable and durable tropical hardwood that is very well suited to joinery manufacture. It's dark and dense characteristics make it a very attractive timber, well suited to a transparent coating. We source this with FSC® certification to ensure it is from sustainable, certified sources.

MANUFACTURING PROCESS

Our manufacturing machinery and processes have been at the heart of our product development throughout our history and a key element in the quality of the final product.



CNC controlled machinery linked to our main software system allows us to efficiently and accurately manufacture your product to order, machining end connections, profiles and routing for hardware. This automation allows us to manufacture a customised bespoke window in a way that is more typical of high volume manufacturers.



Investment in the country's first robotic paint facility has provided us with the ability to apply a consistent coating to our products in a perfectly controlled environment. The efficiency gains from this system have allowed us to develop an advanced coating system that enables us to provide industry leading guarantees at a very competitive price.



Hand finishing our products is and will always be a vital part of achieving the highest levels of quality. Our skilled craftsmen, many of whom have developed within the company through our apprenticeship scheme, hang and glaze the windows and the final quality check ensures all products leave the factory in perfect condition.

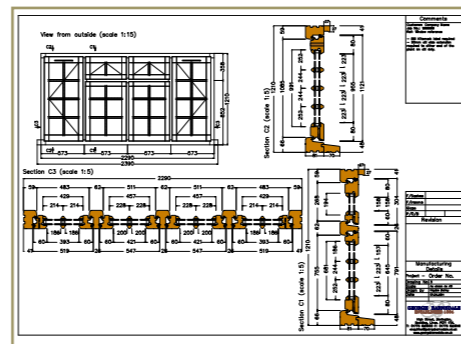


Our humidity control system ensures the timber throughout the factory is kept in perfect condition. It is just one example of the attention to detail we take in all our processes to provide the highest quality windows and doors.

ORDERING PROCESS

We take great pride in the range of windows and doors that we provide, allowing you to get the exact product you require. However, we do realise that choosing your windows and doors can soon become complicated if you don't have the right information. For this reason we have developed the following system to simplify the process and give you the confidence that you have the perfect solution for your project. These services are delivered by us and our approved installer network to provide you with the best possible service.

- 1) **Initial Enquiry** - You may require more information before you request a quotation. If this is the case we provide you with detailed information on our company and our products, information on all of the available options on each product, a sample of case studies showing similar work that we have already undertaken and additional information if your project has any special requirements (for example listed building restrictions).
- 2) **Quotation** - Our quotation has received significant praise due to the detail and clarity of the information it provides, including window U-values and the window energy rating (if the specification is applicable). In addition to this we provide you with supporting detail on the specification.
- 3) **Quotation Support** - Following receipt of your quotation we will follow up with a telephone call to discuss the detail and any questions that you may have. If required we can make any adjustments or provide additional quotations to allow you to understand the cost implications of different options. If at this stage you would like more information, such as viewing samples, visiting our factory or visiting similar projects, we would be happy to arrange this.
- 4) **Order** - If you decide to proceed with your quotation, we will send you an order confirmation, confirming the specification of the products, along with detailed CAD drawings showing the product in plan view and sections through it. At this stage we also raise a detailed list of questions drawing attention to critical elements of the specification, regarding aesthetics, building regulations and anything else we think may be important. We believe this process is a key part of why our customers are always so delighted with the final result of the project.
- 5) **Production** - Once you have approved the order and the drawings we will then confirm the delivery date and put the project into production.
- 6) **Delivery & Installation** - Dependent on your requirements we will then either deliver or install your windows and doors. In addition we provide clear information on how to care for them, allowing you to get the most from your windows and doors for years to come.
- 7) **After Sales Support** - George Barnsdale can be relied upon for a very high standard of after sales service. If you have any questions regarding the products and their installation or maintenance we are available to help. In the unlikely event of a problem either ourselves or our installation partners will make a visit to assess the problem and carry out any necessary remedial work.



This process is a fundamental part of why our products meet and exceed our customers expectations as it ensures that all of the features of our products are optimised for the requirements of your building.

OUR SERVICES

At George Barnsdale we are experts in the design, manufacture and installation of timber windows and doors. We are able to provide guidance at every stage from initial enquiry through to installation and maintenance.

Homeowners

To provide an installation service that meets your requirements, we have developed a network of installation partners across the country, all selected for their capabilities in delivering a service that matches the quality of our windows. This national network allows us to deliver a local service to all of our customers, ensuring that you get the best attention at all times.

This service includes:

- Guidance on building regulations and planning authorities
- Advice on product specification and period features relevant to your property
- Site Measurement
- Installation
- After Sales Support

If you would like supply only, they are also able to provide this service, giving you the confidence that you have the correct specification.



Halam, Newark.

Commercial Projects

For commercial projects, we are able to provide the level of service that you require, from supply only options to a fully managed project using our own commercial installation team. We have a huge amount of experience in this area and a wide range of case studies are available on our website to give examples of the work that we have undertaken. Options include:

Design Services

We are able to work with you on a window and door specification that is optimised for your requirements. This sometimes means developing new variations of designs to produce the required aesthetics, whilst maintaining the performance characteristics.

Support with Regulations and Planning Authorities

Through experience we have gained a detailed understanding of the requirements of planning authorities and the compromises required to keep all parties happy. We are able to support or lead your application to ensure that the process is as pain free as possible.

Site Measurement

We can take responsibility for the site measurement, or alternatively use site plans to get window and door sizes for unprepared openings.

Installation

We have an installation team that are experienced in projects from one window to over a thousand.

Full Project Management

Due to the size and complexity of many projects, there is often a requirement to have a project manager who is always available to keep you informed of the project status. Our project managers ensure everything is running to schedule and any issues are resolved quickly.

Due to the quality of our products and support services we have regularly worked with many of the country's leading contractors including Balfour Beatty, BAM, Lend Lease, Mansell & Sir Robert McAlpine.



Gloucester Quays, Gloucester.

BUILDING REGULATIONS

All new buildings and extensions have to comply with building regulations. The following is a brief summary of the regulations that apply to windows and doors in England and Wales. The rules are broadly similar in Scotland, but are governed by different documents and legislation.

Document B - Fire Safety

Certain windows in a home must be able to open wide enough for use as a means of fire escape. Choose from French windows, false mullions and hinges that open to 90 degrees.

Document E - Resistance to the Passage of Sound

All our windows have excellent acoustic performance. We also offer a range of acoustic glass for locations that demand enhanced sound reduction.

Document F - Ventilation

All windows and doors are available with a range of trickle vent options. We believe that the best way to achieve the appropriate level of ventilation is to install background ventilators such as air bricks, as trickle vents are usually ineffective (they are usually shut due to the draught and never opened again) and they spoil the aesthetics of the window. If it helps, we can recommend more effective ventilation methods.

Document L - Conservation of Fuel and Power

Even if the regulations didn't exist, it makes sense to cut your energy consumption by installing energy efficient windows. In our case, however, the performance of our standard windows goes significantly beyond the requirements of Document L. We were the first company to offer an A-rated timber window under the BFRC Window Energy Rating scheme. We can also provide a detailed thermal report on the energy performance of different design configurations.

The following table shows Document L requirements. Note that you have to achieve one rating type only.

*Maximum value as defined in building regs. Actual value will come from Dwelling Emission Rate (DER) for whole building.

	Whole Window U-Value (W/m ² K)	OR	Window Energy Rating (WER)
New Build	2.0*		N/A
Replacement Windows	1.6		C
Doors	1.8		N/A

Document M - Access to and Use of Buildings

If you need doors for disabled access (generous openings and low thresholds), we can make them to your requirements.

Document N - Glazing

If windows or doors contain low-level glass (anything less than 800mm above the floor), it must use toughened or laminated glass.

At George Barnsdale we have years of experience in the UK building industry and have been involved in the consultation process for a number of aspects on current and future regulations. We can offer you expert advice and guidance with all aspects of your project. Please contact us or your approved installer for more information.

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 either FSC® or PEFC™ certification schemes.
- 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 - *see our website technical area for more information.*
- 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 (a range of 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 can be manufactured to achieve BS EN ISO 7950 (requirement for Secure by Design) if required; Doors can be manufactured to PAS 23/24 if required.

CERTIFICATIONS & STANDARDS



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