



**GEORGE  
BARNSDALE**  
Est. 1884

Timber Window and Door Solutions

# Innovative solutions are in our DNA

“ Ever since my Great Great Grandfather George Barnsdale started the business more than a hundred years ago, we’ve been leading research into timber windows – refining and re-engineering our windows and doors to be the best on the market today. It’s what we do ...it’s in our DNA!”

Tom Wright, Managing Director, George Barnsdale

## Preparing for the new millennium

During the 1990s we were the first UK joinery company to install CAD and a CNC (Computer Numerical Control) system introducing state of the art automation and processes. It was during this period that we became one of the first window companies to manufacture internal beading which improves performance, security and weathering.

## Helping to shape the industry

Stephen Wright is a former President of the British Wood Federation and a current Board member. He was also one of only two UK representatives on the EU SERVOWOOD project. We have also been involved in other pan-European studies, including a study into modification of timber with vegetable oil, and the Click Design project which aims to develop methods of assessing service life performance.

## Manufacturing for the future

Since the turn of the century we have invested heavily in our manufacturing technology and processes. Coupled with this our collaboration with the BRE (Building Research Establishment) has led to a number of factory developments, including the introduction of factory humidification (we are still one of the few companies that have this). We also introduced a fully integrated software system and a state of the art paint facility. Further research with the BRE led to an innovative system to enhance the life of our insulated glazing units.

## Launch of on-site R&D centre

In 2017 we opened the doors to our on-site research and development test centre where we test for air permeability, water tightness, resistance to wind, salt spray testing of ironmongery and long term IGU (Insulating glass unit) testing. With regard to acoustics we have an ongoing programme of research providing a sizeable catalogue of data that we can draw on to advise our clients.

## Continually moving forward

We have just achieved the highest classification of BS6375 Part 1 for air permeability for our patented sash window seal, meaning our sash windows are now just as air tight as the best casement windows.

We are also testing putty systems and astragal bars on our historic range. To ensure optimal performance we are also researching the installation process.

## Leading the way from the start

Established in 1884, George Barnsdale has a long history of designing and re-engineering timber windows.

Born innovators, we are a family firm that has been at the forefront of research since Fred Barnsdale first led the development of BS644 British Standard for Timber Windows in the 1930s.

## Powering into the future

After WWI we installed a huge array of the latest woodworking machinery. In 1924 electricity was installed to reduce our reliance on steam power.

## Improving performance and customisation

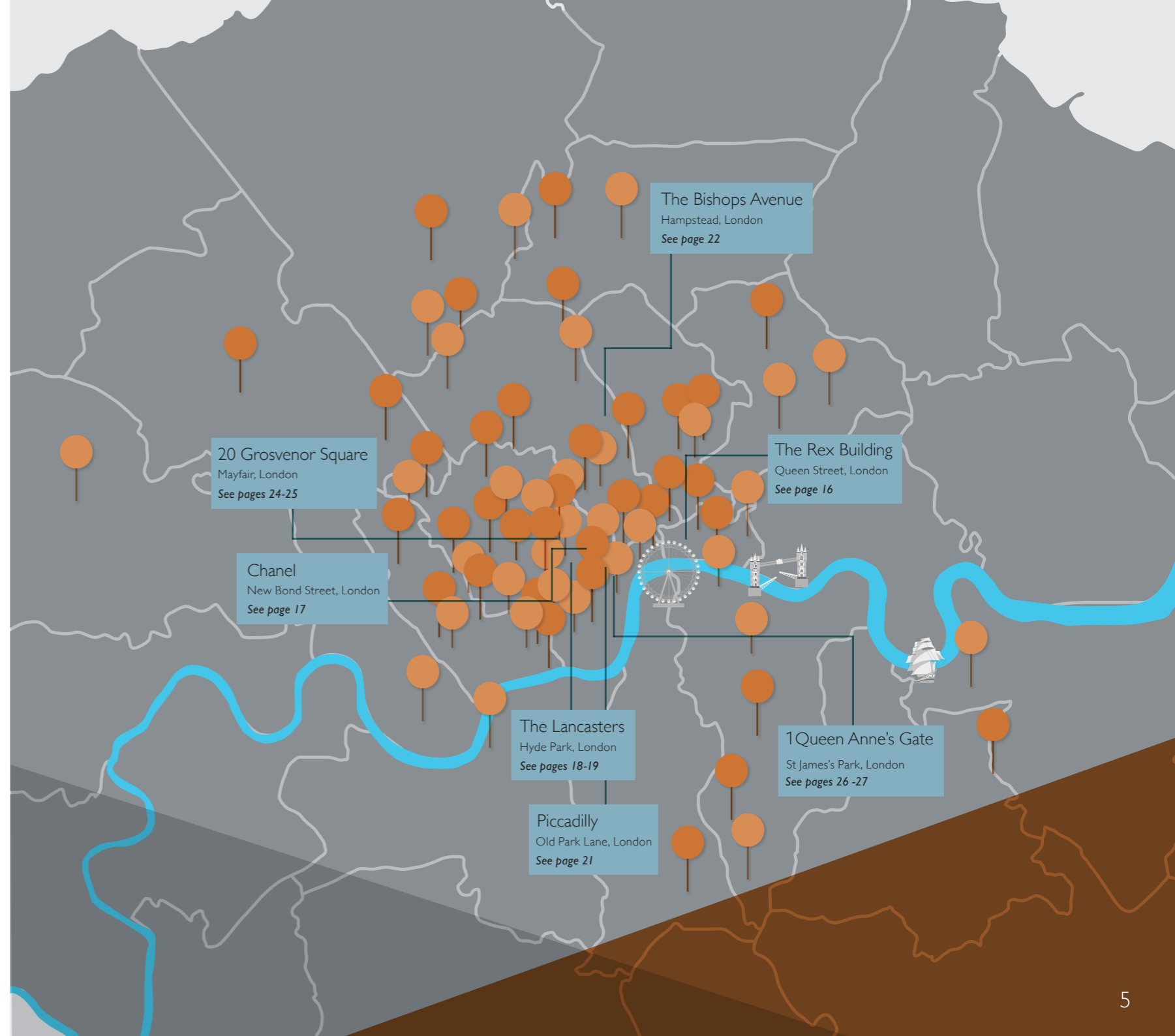
In 1989 we designed a new window range with a Government grant improving draughtproofing and adding a wide range of options to customise.

## Expanding our focus

In order to provide a full product and installation service, in 2002 we established our dedicated commercial arm.

George Barnsdale is fast becoming the preferred supplier of premium timber window and door solutions in the commercial sector. In London alone, you are never more than a short walk from a George Barnsdale window. The reason for this? We do more than manufacture windows and doors, we provide our clients with an end to end service from the start of the project; helping clients to meet strict planning restrictions through specification, quotation and design to production, installation and beyond. With the attention to detail we pay during manufacture, our products will last for many years with very low maintenance.

We work with some of the UK's largest architect firms, Contractors and Developers who trust us to deliver optimal timber window solutions by drawing on our vast technical knowledge and experience. It's not just our products that we like to develop and improve, we are also committed to lean processes that help to keep our prices realistic for our customers. We also work with project management systems like Conject, Zutech, Aconex, 4Projects and Business Collaborator to ensure projects run efficiently and our clients have all the information they require for their systems and procedures. This means we can offer bespoke, premium windows at fair prices with a keen eye on the environment and sustainability.



# We Research

We spend a lot of time and money on research and development simply because we want to fully understand every aspect of our product; from choosing the best timber to the most reliable coatings as well as optimising performance including acoustic properties. We invest a lot of time working with our suppliers to encourage them to continually improve their products to ensure we are always using the best materials available. We have always led the way in developing innovative fenestration solutions. From our involvement in the establishment of the first British Standard (BS644) in the 1930s to our

involvement in pan-European research projects today, there are few people in the industry with more knowledge. What this means for our customers is that we are able to offer products that have industry beating performance whilst retaining their aesthetic appeal at a price that is affordable because we don't need to over-engineer our solutions.

Our dedicated onsite R&D centre is equipped with a range of equipment including a weather test rig, salt spray tester chamber, IGU (Insulating glass unit) monitoring façade, coating weathering station and installation detail openings.

“ It has been a challenge to keep up with the innovation within the business and this has encouraged SafeGuard to push the boundaries ourselves in terms of new product development. ”

**Nick Welsh,**  
Managing Director,  
SafeGuard  
Glazing Supplier  
to George Barnsdale



# We Listen

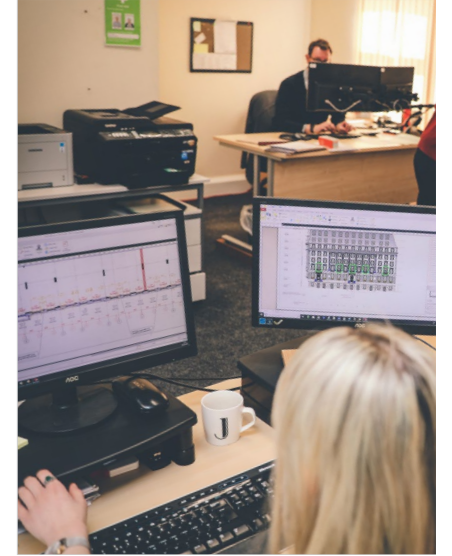
All George Barnsdale projects are led by our highly trained and experienced project management team with extensive experience in timber windows research, development, design and manufacturing. They will meet with you at the earliest stage in the project and listen to you, ask questions and ensure they fully understand what you are trying to achieve. They will assist with stringent planning requirements whilst helping you retain your vision for your project.

It is at this point that we can provide test data, for example on noise reduction at different frequency octaves, enabling you to achieve an outcome that is approved. We regularly help clients achieve the best acoustic performance regardless of whether there is a planning requirement for single glazing in a conservation area or triple glazing in a new build.



“George Barnsdale have been very helpful in supporting us through the design process to get the desired end product and quality finish. The Installation has always gone well and the end product that has been supplied has been of a very good quality.”

Daniel Miller,  
Project Manager, Knight Harwood

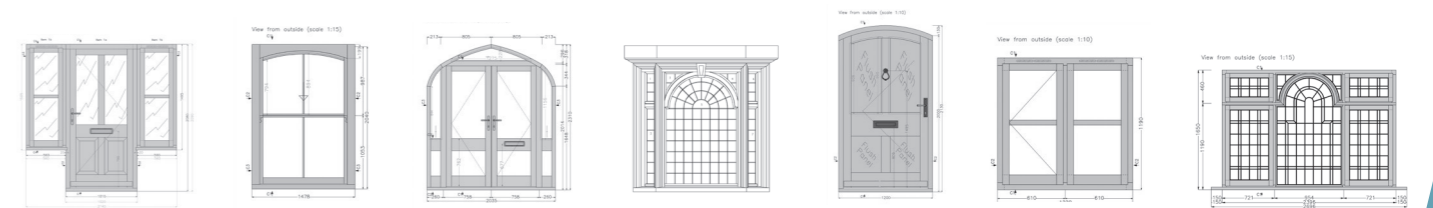


## We Design

Our in-house design department has extensive knowledge and experience of working on large projects involving 500 windows or more, incorporating retained façades and the use of steel framing systems (SFS), as well as smaller developments of houses and self build projects.

When dealing with difficult openings, such as those out of square, round or arched we can survey the openings with a Proliner digital measuring tool to ensure we can accurately manufacture, thus saving time and money to prevent any nasty surprises along the way.

All drawings and files are provided electronically and can be embedded into the customer's own systems and we can interface with industry leading project management systems like Conject, Zutec, Aconex, 4Projects and Business Collaborator.



# We Manufacture

We've been manufacturing all of our products on the same site in Lincolnshire since 1884. Our factory combines state of the art technology with time honoured craftsmanship to ensure our timber windows and doors are the absolute best they can be. From the way we store our FSC® sourced timber, carefully monitoring the moisture content at each stage of the manufacturing process, to the end grain sealing we carry out and our industry leading paint processes, our focus is 100% on ensuring our products last with minimal maintenance and look stunning too.



When a project is signed off and moves to production, our CNC systems allow the production team to work to the precise plans that have been approved by the client at every stage of the manufacturing process.

We offer tours of our factory but if you are unable to attend, take a look at our virtual tour to see how we work. <http://files.georgebarnsdale.co.uk/factorytour>



Our obsession with attention to detail:

- Humidity control throughout the factory
- Great attention paid to end grain sealing pre and post assembly
- 4 coat paint process



“ George Barnsdale offer a modern approach to a traditional craft. They provided high quality, modern performance sash windows to suit a listed, retained-façade scheme. They were knowledgeable, efficient and cost effective. ”

Lee Monks  
Commercial Manager,  
Sir Robert McAlpine Ltd





# We Install

Our team of experienced installation staff have worked on some of the most prestigious timber windows projects in London. They are highly trained in all aspects of site safety and building regulations and they are well respected by other contractors and site management.

Their attention to detail and on-site finishing coupled with the entire team's problem solving expertise make this part of the process as trouble free as possible.

Our own Health and Safety Officer is involved from the earliest stages of the process providing information for the Contractor Management Plan (CMP), Quality Inspection Test Plan (QITP) and Risk Assessment and Method Statements (RAMS). They also attend regular on-site health and safety meetings and provide all relevant accreditation certificates.

There is a dedicated site supervisor on site who acts as the conduit between ourselves and the client.





Underpinned by our extensive research, our products are designed to last! The Building Research Establishment (BRE) has been testing our windows' performance for the past twenty years with the original coatings and minimal maintenance undertaken and the windows have performed exceptionally well.

Another great example is a large project undertaken as part of the King's Cross redevelopment 18 years ago where we manufactured and installed 350 sliding sash windows and 40 doors. The fenestration here is still looking as good as new despite, to our knowledge, not having been recoated and having to endure the toughest of inner city conditions.



The Building Research Establishment (BRE)



## We Deliver

Customer satisfaction is important to us and we proactively seek ways to make projects run as smoothly as possible. We strive to give our commercial clients the very best service throughout the entire project and since all of our products are manufactured in the UK we are able to respond immediately when there are any issues, adhere to our customers just in time processes, and have a full understanding of UK building regulations. This also makes us more environmentally sustainable and cuts the carbon footprint of our products.

Our Project Management team is made up of designers, a health & safety officer, technical staff and production. Members of the team are regularly on-site checking progress and ironing out any glitches and the technical team attends project management meetings whenever required. We work with our customers' Operations & Maintenance (O&M) systems to facilitate a smooth handover.

# We Inspire

## The Rex Building

Queen Street, London

The Rex Building provides 74,980ft<sup>2</sup> of new build office accommodation behind a subtle array of contemporary and classic façades, creating a stylish, modern office building which is spread over 7 floors.

As part of the development, the original aesthetics of the exterior of the building had to be strictly adhered to whilst the inside was completely re-built with modern design and contemporary materials.

We manufactured very large sliding sash windows, many of which featured arched heads to match the original appearance of the building.

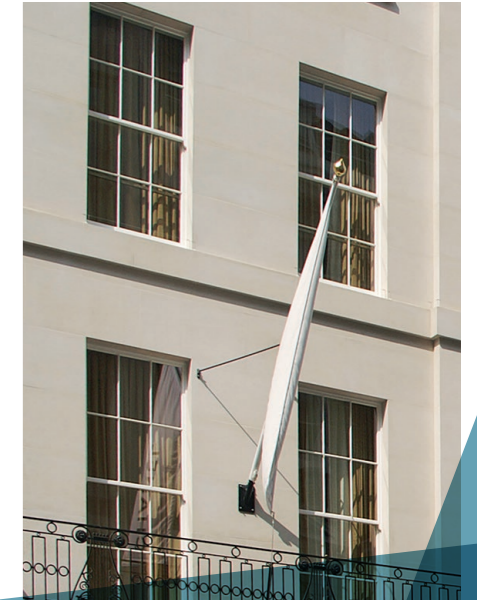
These aesthetics were combined with excellent modern performance techniques including meeting a challenging acoustic specification. As well as manufacturing the windows, we also produced some very large glazed screens with ornate corner details.



# Chanel

New Bond Street

The Chanel flagship store at 158-159 New Bond Street falls under the Mayfair Conservation Area. As part of the remodel we supplied historic timber sliding sash windows, all of which incorporated narrow cavity insulated glazing units. We worked closely with M.Gérard Wertheimer, the owner of Chanel on this project to ensure the project met all necessary planning requirements.





## The Lancasters

Hyde Park, London

The Lancasters, originally an elegant parade of 15 magnificent stucco-fronted Grade II listed houses, required windows and doors that would complement the period and French Renaissance style of the building. Being beside Bayswater Road, it can be quite noisy so they needed to have high acoustic performance too.

On behalf of the Developers Northacre, we manufactured and installed over 800 windows and doors including traditional box sash windows, tilt and slide sash windows, inward opening balcony doors and sliding doors. In keeping with its listed building status, we worked with the Architects, Nilsson to provide timber that is FSC® certified and provides high performance and sympathetic aesthetics. The door frames and windows were

manufactured from an engineered Redwood and the doors were made with Red Grandis. The glass used was single glazed but very thick to provide the required acoustic performance. The properties are very quiet now, despite the busy road outside.

As with many London projects, there were challenges with access and restricted space. In order to get the very large sliding doors for the basement into site, we needed to use a crane.

With large projects like this, our experience of working with the contractor's programme of works to schedule our windows enables us to comply with their just in time delivery requirements.

We are currently working on another project at Buckingham Gate on behalf of Northacre.



## Myddelton House

Enfield, Middlesex

This £1.2 million project involved the construction of a two storey eco-friendly timber office building that focused on the environmental principles of air flow, control of natural light and natural materials.

We manufactured 8 sets of lift and slide patio doors, flush casement and fully reversible casement windows, entrance doors, fixed light screens and large angular screens. The windows were pre-glazed with 24mm sealed units comprising of 4mm heat soaked toughened glass and 6.4mm softcoat laminated glass. All the items were manufactured using FSC® timber, standard across all of our products.



## Piccadilly

Old Park Lane, London

The refurbishment of this existing character building involved the customisation and manufacture of 120 traditional box sliding sash windows to comply with the strict planning requirements of Westminster Council. The weight and pulley windows were used in the Piccadilly and Old Park Lane elevations and were single glazed with 12.8mm sound reducing glass. Double glazed and fully reversible casement windows and tilt and turn windows were fitted to the rear elevation and lightwell providing high performance and easy cleaning.

Since this project is close to the exit to Hyde Park underpass, it is very noisy. As a result, the plan was to install secondary glazing, however, once our windows were installed, the developers were extremely happy with the acoustic performance and decided against it.

# The Bishops Avenue

Hampstead, London

We manufactured timber windows and doors for this prestigious property situated on The Bishops Avenue in London. The select location of the property demanded both careful aesthetic detailing and high performance specifications. We manufactured a combination of beautiful sliding sash windows, stormproof casement windows, tilt & turn windows and opening outward doors. All were factory finished and glazed with plant-on glazing bars and suited together to provide a consistent aesthetic across a wide range of designs.



# York Street

Liverpool

This Grade II listed building in the centre of Liverpool required a sympathetic restoration using engineered redwood timber with solid glazing bars and narrow cavity glazing units. A selection of flush casement and historic box sash windows were manufactured and finished in a mixture of single and dual RAL coloured coatings. Beautiful historic stable doors were fitted with fixed sections at the bottom and narrow cavity glazing units to ensure compliance with planning regulations.





## 20 Grosvenor Square

Mayfair, London

The former American Naval Headquarters, this prestigious development has been converted into a collection of high quality residences by Finchatton under the watchful eye of Westminster Council and Grosvenor Estates. Due to the conservation constraints, the building incorporated a retained façade alongside a newly built façade. Our experience and understanding of the different installation detail and interfaces required with each façade served us well on this project. A mix of 216 sash windows and doorsets were manufactured and delivered just in time as per the programme of works.

Balancing the conservation demands with the requirements for acoustic soundproofing required us to work closely with an acoustic consultant to deliver optimal acoustic performance with the requirement for single glazing. The windows provide very high performance despite looking like a traditional window.

# 1 Queen Anne's Gate

St James's Park, London

Number One Queen Anne's Gate is a prestigious development of 27 luxury private apartments situated adjacent to St James's Park in London.

Dating from around 1704, the building is Grade II listed and retains the external Georgian façade. The building was demolished behind the retained façade to allow modern state of the art development whilst retaining the historic significance and charm of the building. George Barnsdale's experience of working with different types of retained façades and steel framed systems was invaluable in managing the fenestration for this project.

When it came to the choice of windows, the planners specified sympathetic like for like replacement with single glazing in the oldest

parts of the building. George Barnsdale supplied and fitted a range of bespoke historic timber box sash windows and flush casement windows with single and double putty glazing. Red Grandis hardwood doorsets were recreated and installed to complement the existing refurbished door sets incorporating the patterns of the original astragal bars.

In order to ensure clients enjoy complete peace and quiet, acoustic laminated glass was incorporated into the design alongside George Barnsdale's patented sash seal which ensures that drafts and noise are prevented from entering through the frame as is the case with original sash windows. Our sash windows consistently outperform others in acoustic and air tests.





## Earls Court Station

Kensington, London

Having been damaged by continuous changes to the tube station at Earls Court, considerable renovation work has been undertaken to restore the station to its former glory. Technicians from George Barnsdale Commercial carried out a detailed survey of the existing shop front in order to make three new complementary openings as well as new doors and windows for the existing opening incorporating special curved glass. To the rear of the Earls Court building, the company manufactured and supplied 8 special casement windows which were single glazed with mouldings to match the original building.

The entire project was carried out under the watchful eye of English Heritage, making it quite a demanding and complex one to undertake. Further challenges were presented by the fact that the area is so busy and deliveries often required dodging the crowds! Our understanding of working in a railway environment was useful on this project as we were familiar with the railway safety restrictions.



## Chestnut Road

Barnes, London

This £500,000 new build residential house is conceived as two separated blocks, each of two storeys, linked via a glazed stair core and arranged around two sides of a sunken garden.

Environmental credentials include high thermal insulation, rain water buffering and long service life, as well as providing a habitat for flora and fauna, earning the design a place in the finals of the Grand Designs Awards.

We manufactured a number of tilt and turn

windows, flush casement windows, outward opening entrance doors and sliding patio doors for this project.

The large openings required high performance products that gave excellent thermal insulation and weather resistance, matching the low carbon credentials of the building. For the exceptionally large door openings, we manufactured three leaf sliding doors, each on their own tracks that could open to leave the spacious openings visually free.

# We are here when you need us

If we have inspired you for your next project whether it is traditional or contemporary we have a wide range of windows and doors to suit any design including:

- Casement Windows
- Tilt & Turn Windows
- Sliding Sash Windows
- Pivot Windows
- Yorkshire Sash Windows
- Entrance Doors
- Contemporary Doors
- Single and Stable Doors
- French Doors
- Bifold Doors
- Sliding Doors
- Tilt & Sliding Doors

All of the above come with a wide range of customisation options including glazing, paint, stains, furniture and openings. They also come with industry leading guarantees and multi-point locking, tested to PAS 24/Part Q, as standard. Most of our products fully comply with the requirements of Secured by Design, including UKAS accredited third party certification.

It is often said that guarantees are not worth the paper they're written on. Ours are the exception. We honour all of our guarantees and go above and beyond to ensure any issues are dealt with. Our dedicated maintenance team provide offsite advice and guidance as well as carrying out repairs where necessary on site.



If you would like to see how our windows and doors are manufactured, why not visit our factory or see the virtual tour on our website <https://www.georgebarnsdale.co.uk/about-us/committed-to-quality/how-we-manufacture/>

Alternatively, phone us on **01775 823000** or email [enquiries@georgebarnsdale.co.uk](mailto:enquiries@georgebarnsdale.co.uk) to discuss your project or to arrange for us to visit you on site or at your premises. We can provide estimated prices from your architect's drawings or we can undertake a site survey.



## Our products are 100% made in the UK

We are proud to be one of very few UK manufacturers to still manufacture 100% of our products in Britain. For our customers, the benefits of a shorter supply chain coupled with our responsiveness and quick turnaround can be invaluable. Not having to wait around for replacement parts or repairs to items damaged on site is a big plus for customers working with tight deadlines and “just in time” processes.

- There is a direct connection between the site staff and the people designing and manufacturing the products, meaning that we are more responsive and flexible in solving problems.
- Any problems can be easily sorted out directly with the manufacturer (If big jobs are supplied by an overseas company the basic design, measuring and fitting are normally done by a UK company. Any issues then have to go through a painful process to resolve)
- Glass units made locally allowing fast replacement for damage
- Off-site storage easily resolved
- Accurately timed local delivery giving true Just in Time service
- Short supply chain

For more information:

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