



Glass Extensions

Design and Build



Glass Extensions: Architectural Glass and Structural Glazing Specialists

The beauty of structural glass is its ability to create completely frameless glass installations that blend and complement the built environment.

Glass Extensions work with architects and designers and are award winners for glass extensions, glass staircases, structural glass solutions and a whole lot more.

Glass extensions and frameless glass structures are part of modern architecture and allow the inside and outside space to become one.

Working with the leaders in the glass industry utilising the latest specifications of low e-thermal coatings and solar control, your **Glass Extensions** structure is guaranteed to exceed the rigorous new heat efficiency regulations and remain comfortably warm even in the most extreme conditions. The technology used means that you can keep the internal temperature just-right at all times - no more too hot in the summer and too cold in the winter.

SunGuard®

SunGuard® by Guardian Glass offers high-performance architectural glass helping architects and designers combine solar control, light transmission, and low solar heat gain properties with a range of colours and appearances to suit any application.



St James Square, London

Built on the back of a four-story town house in London, St James represents all the features that make up a frameless glass extension while creating the wow factor.

South facing, this glass structure incorporates the latest in solar controlled glass. Keeping the temperature all year round not too hot and not too cold.

Glass Extensions designers and specifiers work hard to create spaces that are at the cutting edge of design. Fine-lines and large areas of structural glass that connect the inside and outside space.

An extra feature was a glass floor that flooded light into a basement wine cellar also creating a dramatic entrance into the kitchen from the patio area.

As featured in

**GRAND
DESIGNS**

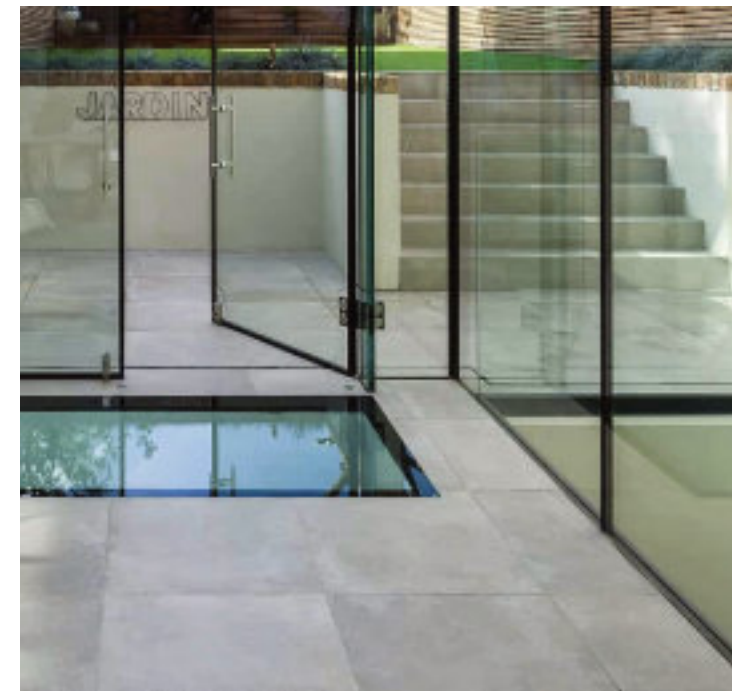


Transparent Solar Protection

Specified for the walls and roof, solar controlled glass optimises the ratio between light transmission and a high thermal performance. This allows maximum daylight whilst protecting against excessive solar heat gain.

SunGuard® high-performance architectural glass helps architects and designers build with light.

- Glass Extensions Infiniti Finline hinged door
- Laminated toughened Low Iron clear glass beams
- Triple laminated structural glass floor
- Bespoke stainless-steel fittings





The Glass House

Entitled 'The Glass House' this renovation and extension plays on the contrast between light and dark and injects a new lease of life into what was once an unoccupied and poorly maintained manor house in Winchester.

The design makes best use of the existing structure, whilst making minimal changes for the greatest benefit. The North West elevation which forms the approach to the property remains largely unchanged to preserve the original character of the building.





To the rear the existing single storey structure has been increased to be in line with the main property and to retain the existing footprint of the building. This, along with a small single-storey extension to the rear of the westerly side, forms a semi-courtyard space enclosed in glass, which opens up onto the garden. The secondary spaces of this glass enclosure provide contrasting environments, providing the occupant with a variety of living space and emphasising the openness of the kitchen to the garden.

Producing double glazed units using low iron and solar controlled glass gives super clarity while reflecting most of the sun's harmful rays. **Glass Extensions works** at the forefront of glass technology creating an all year round comfortable environment.

Glass balustrades and floating stairs create new finished structures that breath new life into this former manor house blending old and new with timeless ease.

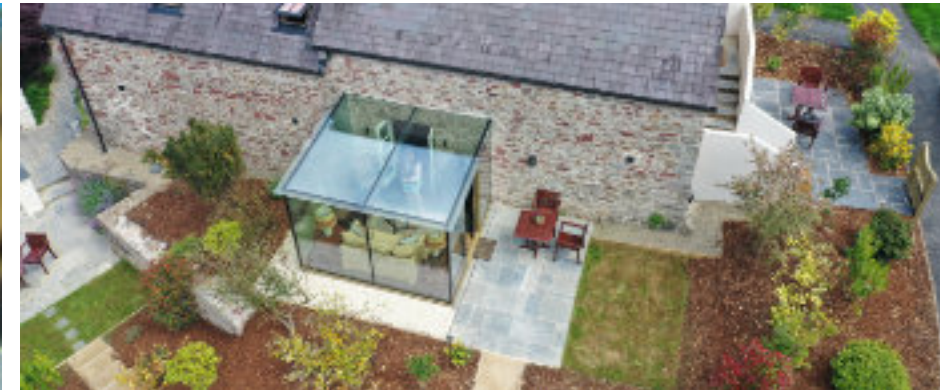


The Grove Hotel, Pembrokeshire



Three Stunning Glass Rooms

Neil and Zoe Kedward, the proprietors at The Grove, took advantage of the COVID lockdown to add three glass box extensions to three of their rooms incorporated in former outbuilding in the grounds of this exquisite hotel. Time however was of the essence, and **Glass Extensions** worked closely with Neil and Zoe to fully understand their goals and deliver a very simple, but no less impressive, timely solution. Each room now has a beautiful inside/outside sitting room to relax and take in the beautiful and tranquil surrounding of this glorious country house retreat.





Creating your outdoor space

More and more people are enjoying their garden spaces. Elegant glass structures enable you to take advantage of these areas, allowing you to enjoy your gardens without any visual boundaries.

Summer winter all year round. We manufacture all glazing and doors using Guardian's SunGuard® 70/37 solar controlled glass, helping maintain consistent temperatures all year round.



Using Wasted Space

A disused ally way was used to create a comfortable kitchen and dining area whilst adding financial (increased internal floor area) value to the property.





More Ground-breaking Innovations from Glass Extensions

Sat on a hill side near Penzance, The Grange needed a twist of contemporary living as an addition to the existing family home.

The brief was to construct a multi-level clear structure that opened onto the landscaped hill side, which formed the family garden.

Access to the garden with the largest seamless opening was the challenge to be overcome. A corner opening frameless structure and innovation in glass was required to achieve the client's dreams, **Glass Extensions** designers and structural engineers created a canter levered glass corner incorporating **Glass Extensions** Infiniti Finline sliding doors.

Glass Bridge and Office Fit Out, Chiswick, London.

Working with Malishev Engineers we designed, manufactured and installed a glass bridge as part of an office refurbishment to link two buildings to create more office space.

Over size solar controlled double-glazed units were supported on a glass floor as well as toughened laminated glass beams bonded into place with structural silicone.

This collaboration with Malishev Engineers created a high quality structural designs that delivered the best quality and value for our clients.

Please copy our video link below:

<https://youtu.be/EBfbBA7hxhk>



Glass Staircase, BNP Paribas, Marylebone, London

Working on the 18th floor we were asked to create a clear single-story stair solution that allowed light to travel to all areas.

Using SGP interlayer which increases the structural integrity of glass we were able to support the edge of the treads in the glass wall allowing each tread to span 1680mm fixed through with point load fixings no bigger than a twenty pence piece. Lights were incorporated into sand blasted panels changing at different times of the day to reflect the mood.

Glass Extensions can design, manufacture, and install solutions for unique projects, working closely with designers and Architects.

Infiniti Finline Sliding doors

Create your Space.

A **Glass Extensions** door enables you to create a space without boundaries. Our structural glass sliding doors can be integrated into projects giving a seamless transition from inside to out. Fine lines provides a smooth-running glass solution with 17mm sight lines achieving uninterrupted views. This solution included a fully motorised system allowing seamless glass walls to disappear with ease.

Applications

Our sliding doors are widely used but not limited to the residential /light commercial, retail and leisure markets. We also successfully design and build structural glazing solutions across all sectors providing innovation and dedicated project management services.

Sliding Doors

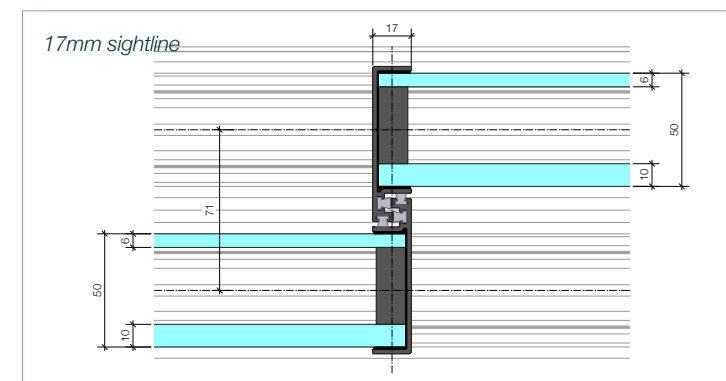
We can provide single and multi-sliding doors with outer frames that are individually extruded in sections.

These sections are coupled together to make endless sliding and folding solutions.

We achieve the sliding movement of our doors through the uniquely designed double rolling stainless steel wheels, providing the largest and smoothest doors on the market.

The doors are locked internally through a dead bolt system (7 pin anti bump euro cylinders can be fitted as extra).

Multi locking stations can be fitted as extra, allowing increased ventilation.





Visualisations



Proposal: computer generated image.



Outcome; design realised.

Visualisations, either drawn or computer generated images (CGI) help our customers plan their space. Building structures that work with the built environment is key to creating a calm and much used space for the whole family to enjoy.



Drawing.



A quick sketch used to explore a idea.

Design

Glass Extensions is home to a team of highly experienced and talented and multi-disciplined designers. We specialise in providing an end-to-end, high quality structural glass design solutions, encompassing all aspects of the project. We are passionate about what we do; ensuring we provide you with the best results. With knowledge and expertise across a breadth of services, we deliver your solution within budget and to the highest standards.

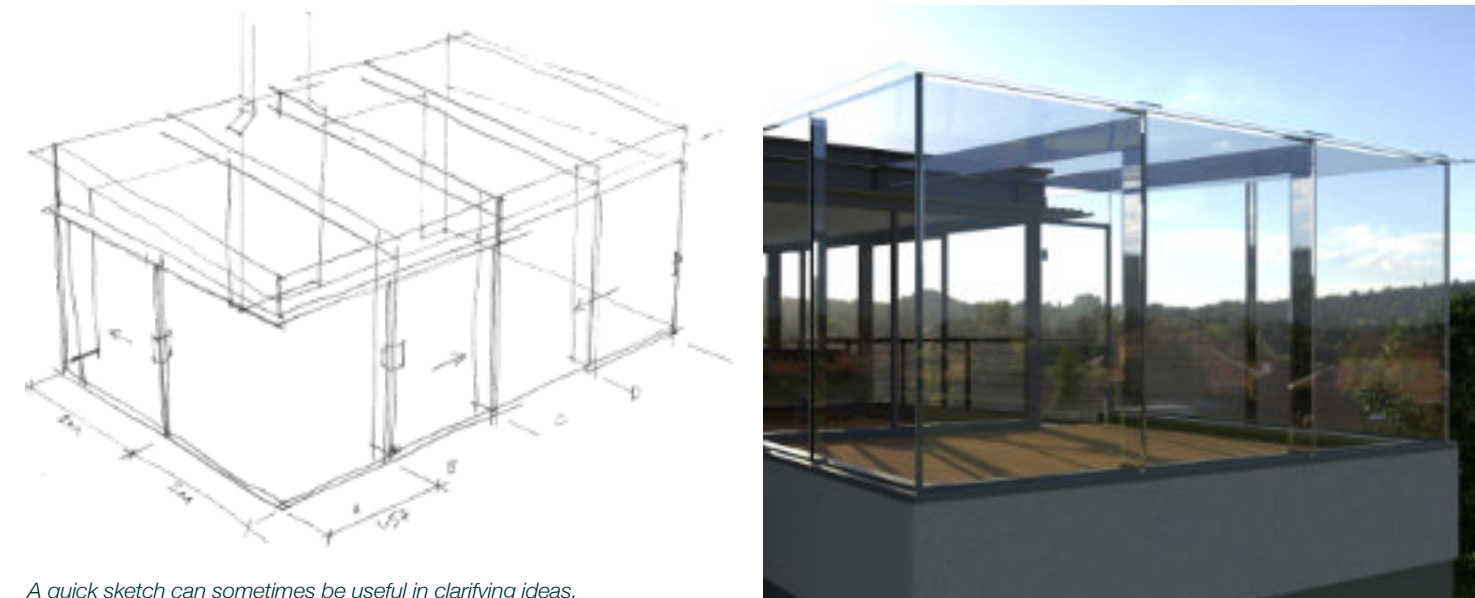
Our philosophy is simple - achieve the most suitable design solution, to meet your brief and provide you with your perfect space.

What we do

- Attend site for meetings, design workshops, surveys
- Produce initial 3D modelled design concepts and renderings
- Engage with structural engineers when necessary
- Produce part, assembly, fabrication and construction issue drawings
- Produce materials, assembly, loading, and bolt lists
- Procurement
- Project Management
- Quality control



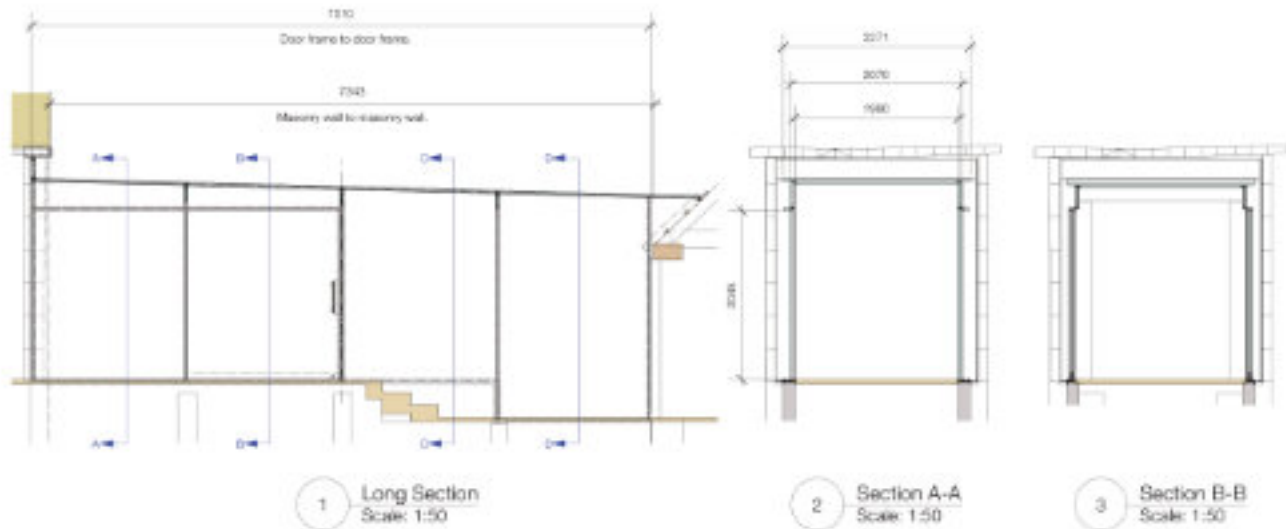
An example of a photo realistic render



A quick sketch can sometimes be useful in clarifying ideas.



For most projects a model is made, based on a survey scan. This is used to evaluate and refine the design. The model can then be used to produce planing and production drawings



A point cloud with proposal added. Buildings, especially old buildings are often not square or regular. Glass can be cut to fit the irregular form of a building closely.





Laser scanner.



A point cloud produced by our laser scanner.



Stage 1 - Survey and Ideas.

Your initial contact - whether it's an email or a call to our office - will allow us to help you develop your ideas. We will advise on your next step. Site visit/design brief/developing a budget for your project. During our site visit we undertake a measured survey.

Glass Extensions has invested in laser technology that allows us to map your building with incredible detail so your clear structure will fit seamlessly on or in your home.

Stage 2 - Developing your Design.

Creating your new space is an investment that will last for years and add value to your property. Once you are happy with our interpretation of your ideas, we will create planning drawings showing overviews, plans, elevations, sections and details. With the planning drawings accepted we'll produce the working drawings for metalwork and glass.

Stage 3 - Production.

Processing your order to be manufactured involves making sure that we use only the best and most appropriate materials.

An example of this is our use of Guardian SunGuard® solar controlled glass as standard.

Stage 4 - Construction.

Detailed and precision drawings allow the construction of your glass extension by our team of highly experienced expert fitters.

Creating your space to a high standard has a number of processes. This can take between eight and twelve weeks. Anything less than this is a short cut in the process of delivering a building to be proud of.

We offer a product and build guarantee that is expected when building on or in your home.

Technical Details

Sliding Door Glazing

50mm fixed and sliding sections incorporating low-e toughened glass provides an extremely thermal efficient glazed door solution.

Structural Fixed Glazing

50mm fixed and sliding sections incorporating low-e toughened glass provides an extremely thermally efficient glazed door solution.

Roof Glazing

Calculated to achieve the highest standard of thermal efficiency and structural integrity.

Cavities of 34mm allow us to compensate for deflections caused by the self-weight of the glass.

An argon filling allows us to increase thermal performance.

Aluminium Extrusions

Glass Extensions aluminium extrusions are all finished with polyester powder coatings meeting BS EN12206 Part 1. Optional finishes include anodising and marine grade PPC finishes with specified gloss levels and colours.

Structural Parameters

Unlike other door systems, we can push the limits of structural capabilities. Full structural calculations are available on request.

Sliding Solutions

Max height 4M, max width 3M

Multiple combinations are available as well as fully automated sliding systems.

A Unique and Tested System that Allows Endless Solutions

- 17mm sight lines between sliding doors
- Fully weather tested system
- Double and triple glazing solutions -1.1-0.8w/m2.K acoustic insulation 30-35 Db

Guarantees

A 5-year parts and labour guarantee is offered on final payment.

Services

- Project Management
- Detailed Quotation
- Design Consultation
- Full Sight Survey
- Production Drawings
- Structural Calculations
- Manufacture
- Installation



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