

QUICKBASE™

Engineered Foundation System

Fully engineered
foundation normally
installed in a day!



Engineered foundations for conservatories, orangeries, timber frame, garden rooms, extensions and modular buildings

A totally unique foundation system for conservatories and lightweight structures, revolutionising conventional construction methods

The Company

QuickBase Foundations Ltd was formed in 2008 to manufacture and distribute QuickBase Foundation Systems across the UK.

The development of this unique foundation system came through the collaboration of Shire Consulting and the Wykamol Group Ltd. Both had identified the need for an engineered foundation system due to high levels of foundation failures, particularly in the conservatory market. Due to their extensive experience in underpinning buildings using the Shire Pile system, the development of QuickBase was a natural development of this innovative product. Following extensive testing over a three year period by Coventry University and Shire Consulting, the QuickBase Foundation System was born.

QuickBase designs, manufactures and delivers QuickBase Foundation Systems across the UK from their modern manufacturing facility in Bromsgrove, Worcs. QuickBase is installed by a national network of approved installers or by customers who have received extensive training and support and have purchased their own installation equipment.

The System

This pioneering modular system is based on helical screw piles, which support lightweight, part-recycled plastic ground beams connected via a series of push-fit joints to form a frame. The ground beam is then filled with a specially formulated non-shrink grout to give a high strength composite beam.

The frame carries the load of the building through the piles to suitable bearing strata, uniquely removing the need for mass concrete foundations. It is then fitted with a pre-manufactured damp proof floor slab, onto which the inner wall of the conservatory or extension is built.

QuickBase Foundations are also ideal for other lightweight structures such as porches, extensions or modular buildings. Critically, they more than meet the requirements of proposed changes in building control regulations.

QuickBase systems don't require wet trade finishing, so labour costs are cheaper and build time is faster. The foundations can be quickly laid by approved QuickBase installers, with full training available to those contractors looking to achieve approved installer status.

Unlike traditional foundations, QuickBase is ideal for 'less than perfect' ground. The piles are generally driven to 4m depth (deeper if required), guaranteeing suitable load-bearing strata, and avoiding troublesome tree roots.

QuickBase is the number one solution for guaranteed, high quality, non-corrosive foundations that give complete peace of mind to the homebuyer.

Advantages

- No need for mass concrete foundations.
- Reduces site excavation work.
- Quicker conservatory construction - foundations and floor can be laid in less than a day.
- Minimises spoil to landfill.
- Better quality control - offsite, modular construction ensures the highest quality and the tightest tolerances.
- Ideal for houses with limited access - modular parts can be carried safely and cleanly through the house.
- Corrosion-resistant floor and ground beam construction.
- Drastically reduced preparation time, maximising build volume.
- Reduces overall material and labour costs.
- Full installation warranty from installers.



| | |
|-------------------------|------|
| About Us | 2 |
| Fully Engineered System | 4-5 |
| Step by Step | 6-7 |
| Applications | 8-10 |
| Case Study | 11 |



Information

QuickBase and Building Regulations

QuickBase exceeds current and planned building regulations requirements for floors with a U value of 0.196 per m². All QuickBase Foundations are designed to exceed NHBC guidelines for foundations in clay soils with trees in close proximity. In preparing each design, our engineers take into consideration influences of trees in close proximity.

Because each project is designed taking into account existing drains and services QuickBase can accommodate any configuration of existing services or site obstructions.

Who will provide the building regulations submission?

We can provide appropriate information for you, or our engineers can submit your application.

What floor finishes can QuickBase accommodate?

'Any' is the simple answer. QuickBase are regularly installed with suspended timber, insulated timber, ceramic tile, laminate, solid timber and carpet.

Ground conditions

QuickBase is appropriate for all ground conditions including shrinkable clay soils, granular soils, soft ground, fill, made-up ground and contaminated ground.

Quotation

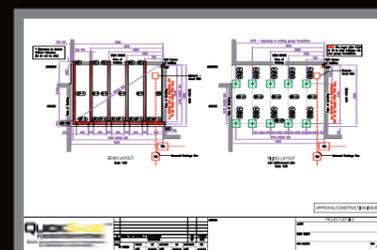
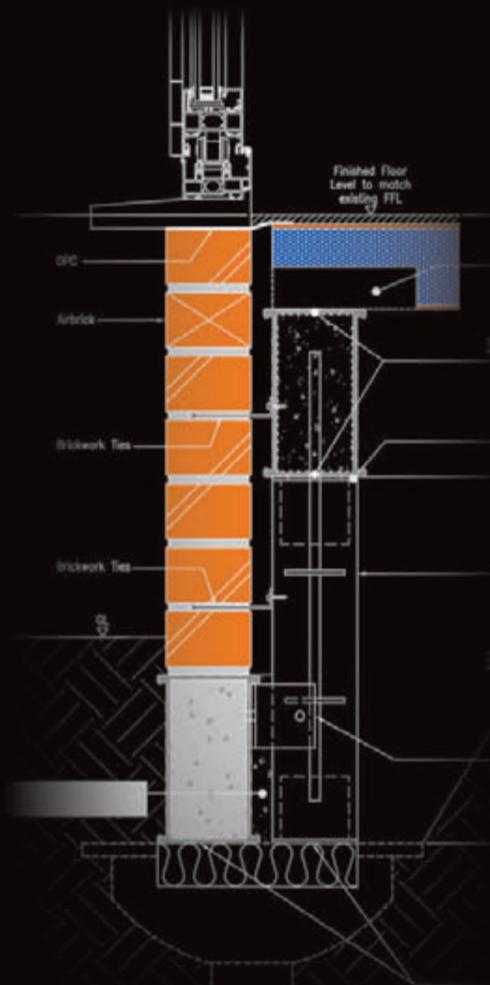
Once the design is complete, we will provide you with a written quotation for the Foundation System, along with a complete drawing pack and structural calculations where required.

We are also happy to provide a budget quotation within 24 hours without completing design to help you price projects you are bidding for without delay. Our sales office team await your call.



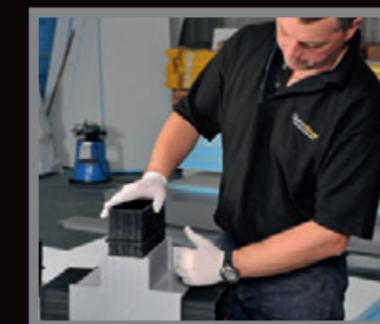
Design

To enable the QuickBase team to produce an accurate structural design, we need to receive project drawings and a completed site survey form before we can begin. The survey form is simple to complete and asks questions about soil type, trees etc which helps us to design an effective foundation for the ground conditions (the form is available to download from quickbaseuk.com).



Manufacture

QuickBase manufactures the QuickBase foundation at a modern manufacturing facility in Bromsgrove, Worcs. Each base is manufactured to order, to the exact design requirements and delivered either to site or to your premises as a kit ready to assemble. All components required for complete installation are delivered in one drop saving you time and money.



Installation

QuickBase has a nationwide team of approved installers for the QuickBase Foundation System waiting to complete your installation. In addition, a number of our customers have purchased their own installation equipment, and have received extensive training by the QuickBase technical team and now install their own QuickBase Foundation Systems.

This gives them more flexibility with installation dates and helps to reduce costs. In addition, because bases are significantly quicker to install than conventional foundations, you can complete more installations, increasing revenue for your business.

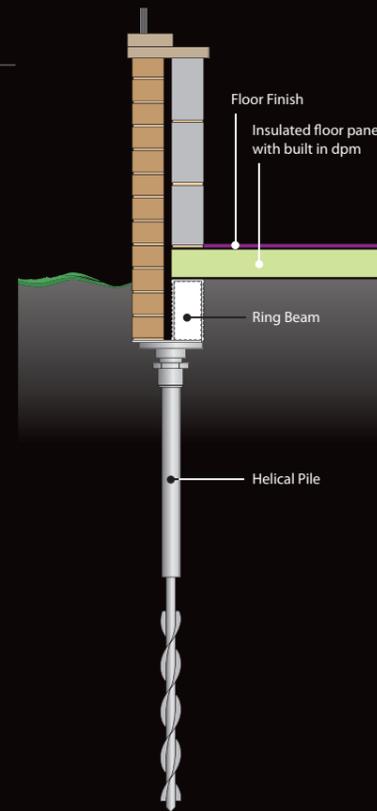
Innovation

The heart of the QuickBase system is Shire's helical screw piles, which are driven into the ground to suitable load bearing strata, removing the need for mass concrete foundations. The piles are generally driven to a minimum depth of 4 metres (deeper if required) to accommodate loose surface soils and troublesome tree roots.

The piles support lightweight, part-recycled plastic ground beams connected via a series of push-fit joints to form a frame. The ground beam is then filled with a specially formulated non-shrink grout to give a high strength composite beam.

A pre-manufactured lightweight insulated damp proof floor slab is fixed with resin onto the completed ground beams.

Conservatory foundations have historically suffered a high failure rate, leading to calls for greater regulation. The introduction of modular construction methods would favour this potential change. Increasing labour costs and the trend for more environmentally-friendly forms of building also make the QuickBase system an attractive option for builders and homeowners alike.



The Benefits

QuickBase offers a number of overwhelming benefits when compared to traditional foundations.

Cost

QuickBase delivers overall cost benefits against traditional building methods. It does not require wet trade finishing, lowering overall labour costs.

Time

In most instances QuickBase Foundations can be started and finished in less than one day, compared to up to a week digging out deep foundations.

Environmental

QuickBase is a more environmentally friendly method of construction. The beams are made partly from recycled materials and the damp-proof floor slab is insulated, making it more economical once built. It is virtually a dry-build process, reducing the volume of water used. Less natural aggregates are used and

there is generally no excavated material to take to landfill sites. All components are delivered from a single source, reducing the volume of construction traffic.

Access and flexibility

QuickBase is ideal for houses with limited or no outside access to the site. Modular parts can be carried safely and cleanly through the house, and no heavy digging equipment is required. The adjustable pile depth guarantees that the structure will sit on suitable load-bearing strata and can support structures which would otherwise not be feasible.

The pile is generally driven to a depth of 4 metres to accommodate loose ground and tree roots, but it can be driven deeper if required. The patented helical fin arrangement allows the pile to work in both granular and cohesive soils.

Quality

The QuickBase system uses the best materials and the highest quality construction to guarantee a reliable, safe product. Offsite, modular construction means quality and the tightest tolerances can be assured. The ground beams and floor are corrosion-resistant, and QuickBase approved installers can provide a full installation warranty.

Strength

The plastic beam is designed to carry loads up to a single storey building and higher loads can be carried by increasing the reinforcement in the ground beam or by reducing the pile centres. The beam is filled with a high strength grout which increases its strength and prevents any excessive thermal movement.

Step by Step guide

How QuickBase saves time and hassle

Step 1

Site preparation is simpler with no need for deep foundations, saving time and minimising disruption which keeps the customer happy.



Step 2

Helical screw piles are quickly driven to the required depth to reduce the hazards associated with made-up ground or trees. A levelling head is added to the pile head to form the connection with the ground beam.



Step 3

Lightweight, partly-recycled, plastic push-fit beams can be joined together to form the framework that sits on top of the load-bearing piles.



Step 4

A pre-manufactured lightweight floor slab can now be laid on top of the framework. This unique base includes both insulation and a damp-proof membrane.



Step 5

When the floor slab is in place, the walls of the building can be built - with the inner wall laid on the slab and the outer wall on the ground beam.



Step 6

Glazing can be installed and the building completed in a fraction of the time taken using conventional foundation methods.



Applications for the QuickBase System

Conservatories

QuickBase is used by many of the UK's leading conservatory manufacturers to provide high quality engineered foundations, in all site situations.

QuickBase is fully compliant with Building Regulations and designed to meet local building control scrutiny.

The QuickBase design engineers work in partnership with both local authority and private building control to ensure all required standards are delivered.

QuickBase works with all roof, wall and floor configurations. Design software integrates with most leading conservatory design systems.

All conservatories built on a QuickBase Foundation can be provided with a full 10 year insurance backed warranty either for just the foundation or for the foundation and conservatory together.



Orangeries

The unique elements of an orangery construction means it is vital to ensure a stable foundation system. Slender columns of brickwork, and high roof-loads mean any minor movement of the foundation will cause significant problems with the building.

The deep founded piles of the QuickBase system ensure movements associated with tree roots, volumetric changes in clay soils, landfill sites and made-ground are eliminated.

The QuickBase engineering team will work with your building designer to ensure soil conditions and line loading are taken into account when designing a foundation-specific to your building and site location.

The QuickBase engineering team is able to provide full engineering support and Building Regulation submissions, alternatively our team will provide, building regs packs for you to submit to your local authority with your super structure plans.



QuickBase Foundations can be provided with a full 10 year insurance-backed warranty.

Timber Frame

Timber framed buildings are becoming very popular for people wanting an extension which is in harmony with the property and garden.

Timber framed buildings offer a huge variety of uses for the homeowner but it is essential that this major investment is built on adequate foundations.

A QuickBase Foundation provides a low impact (minimal excavation) quickly installed (as little as 4 hours) engineered foundation system for timber framed buildings.

The QuickBase floor slab exceeds existing and proposed thermal requirements for floors in domestic buildings.

The deep piles of QuickBase ensure the timber framed building is not damaged by movement associated with shallow founded pad type foundation systems. This helps ensure your lifestyle investment retains its value and use over time.



Garden Rooms

QuickBase is being increasingly being used as a foundation for bespoke garden buildings. Garden buildings provide householders with a designer living space to meet their needs.

A QuickBase Foundation provides a low impact (minimal excavation) quickly installed (as little as 4 hours) engineered foundation system for modular, or site-assembled garden buildings. QuickBase can be designed to cope with additional loadings of Levum (Grass) roofs, where buildings are designed for low visible impact and thermal efficiency.

The QuickBase floor slab exceeds existing and proposed thermal requirements for floors in domestic buildings. The deep piles of QuickBase ensure the garden room is not damaged by movement associated with shallow founded pad type foundation systems. This helps ensure your lifestyle investment retains its value and use over time.



Applications continued

Extensions

QuickBase Foundations are designed to cope with loadings associated with traditional brick, block and tile roofing.

QuickBase engineers will calculate loadings of roofs, walls and flooring, and provide Building Regulations calculations, where necessary.

QuickBase is particularly cost effective when working in confined spaces, where soil conditions would usually require deep excavation, where limited parking restricts the ability to remove the spoil associated with deep excavation and where trees are in close proximity to the build site.

QuickBase is also very clean and effective where site access would mean carrying all spoil and materials through the customers house.



Modular Buildings

The use of pre-manufactured panels to create affordable, eco-friendly and energy-efficient buildings is a growing trend in the UK. An extension constructed using a QuickBase Foundation, with a pre-manufactured panel building on top is the fastest way of installing an extension, taking as little as eight days from start to finish.

This method of construction is widely used on social housing and health authority building projects for quick and eco-friendly disability living adaptations. QuickBase Foundations are working with a number of modular building manufacturers across the UK to install these types of buildings.

In addition to the QuickBase Foundation being quick to install, it is also unique in being able to offer a 10 year insurance-backed guarantee.



Case Study

Modular Building

A Northants kidney patient was given a home dialysis room in double-quick time, thanks to the award-winning QuickBase modular foundation system.

Contractor Edgebourn completed the foundation in only six hours, enabling the entire SIP panel extension to be completed in just 11 days from start to finish.

The project was funded by Leicestershire Primary Care Trust in association with South Northants District Council for the patient, who previously had to travel 15 miles to and from hospital three times a week.

Edgebourn Director Martyn Syner said: "We have been using QuickBase as an integral part of our PAB (Portable Adaptive Building) system for some time and find it quicker, more economical and more versatile than conventional foundations." QuickBase Foundations, can be put down in almost any weather and eliminates the need for deep digging or wet-mixed materials.

The system is based on the Shire pile, the most widely specified domestic support system in the UK with more than 5,000 installations now in place around the country.

QuickBase won Best New-Build Product at a recent Interbuild show and Conservatory Product of the Year from WFI magazine.

