



# FLOODSAFE

The foundation solution for flood risk areas



ABBAY PYNFORD

# FLOODSAFE

Floodsafe is our patented foundation system that allows construction in high flood risk areas.

## Benefits



**Increased footprint** - Floodsafe allows for increased footprint into flood risk zones, allowing greater yield from your site.



**Property protection** - Floodsafe ensures future safety for your property / building from flood waters.



**Cost certainty** - By reducing the programme, prelims and eradicating the elements stated to the right, we can offer cost certainty for your project.



**Safer** - Floodsafe has many features that enhance a safer environment on site, and comes with warranty provider approval: NHBC, Premier Guarantee and LABC.



**Less environmental impact** - Floodsafe uses less concrete, requires less spoil removal, and significantly reduced vehicle and plant movement. Reducing the carbon footprint of your site.

## Floodsafe does not require the following elements:

- ▶ Piling mats (in 95% of projects)
- ▶ Excavations for ground beams
- ▶ Ground beam construction
- ▶ Pre-cast floor
- ▶ Sub-structure brickwork blinding within footprint
- ▶ Resources to manage the above







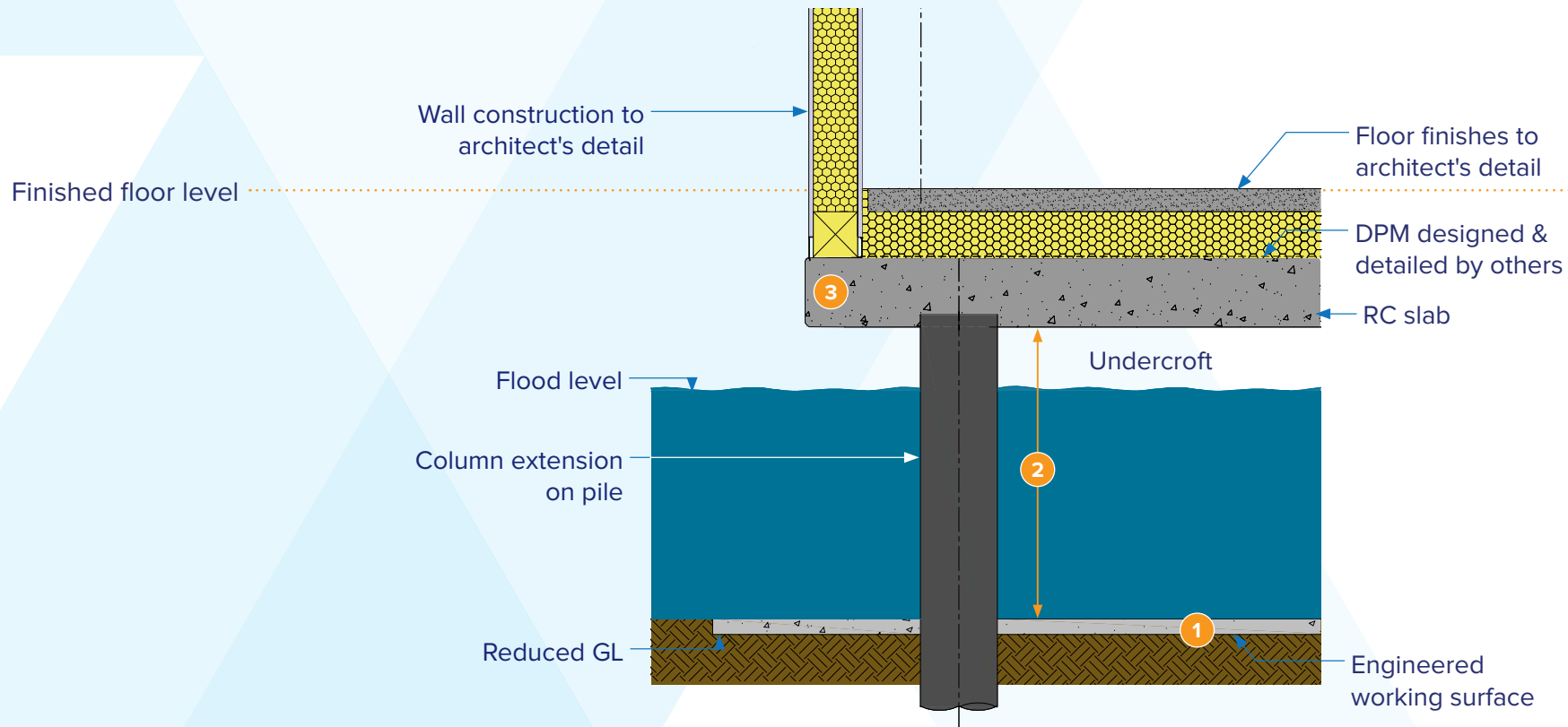
Floodsafe is our patented foundation system that allows construction of residential or commercial structures within areas with a high risk of flooding.

The Floodsafe system creates a clear void beneath your structure to ensure that the potential flood waters stay below the slab level and out of your property.

Floodsafe can support a range of piling techniques, depending on the ground conditions. The piles are installed on an engineered working surface, and are encased above ground to form columns, upon which the raft is constructed, and the slab is poured.

Floodsafe is a version of our Housedeck and Comdeck systems, both are BBA certified and warranty provider approved: NHBC, Premier Guarantee and LABC. All engineered solutions are fully underwritten.

# Typical Floodsafe detail\_



## Benefits of Floodsafe:

- 1 Engineered working surface in place of piling mat.
- 2 Column formed on top of pile to raise the slab above flood risk level.
- 3 Slab profile to clients requirements to provide a high quality finish.



# Construction process\_

## Stages of typical slab build



### Reduced Level Dig

We start by re-levelling or excavating to the formation level of the plot area, plus 1m around the perimeter, to allow for the engineered working surface.



### Setting Out

The pile locations are then set out according to the Abbey Pynford design. To increase piling accuracy, we use pile formers to help guide the pile installation.



### Working Surface

The engineered working surface is then installed to the plot size. This replaces the need for a traditional piling mat.



### Piling

Once the working surface is cured, the piles are installed. We offer various piling techniques to suit any project.



### Columns

Casings are assembled over pile positions, into which concrete is poured to form columns.



### Deck support

Once columns have cured they are uncased, and a temporary deck support system is constructed, upon which the raft will be built.





### Edge Shuttering & Fix Reinforcement

Next our patented edge systems are installed, followed by the steel reinforcement to create the raft.



### Concrete pour

Once final levelling is complete the concrete is poured.



### Finished structural slab

The finished slab, with a quick edge profile to provide high quality finish, is ready for trades on average 5-7 days after the concrete pour.



# About us\_

At Abbey Pynford we provide a more integrated approach to our services, offering a one stop shop to commercial contractors and private developers. Founded in 1988, Abbey Pynford Group has 30+ years of industry experience to support you through your project.

We offer a wide range of services ranging from our patented engineered foundation systems, various types of piling and underpinning.

We have our own in-house design team comprised of Structural and Geotechnical Engineers, providing underwritten design solutions across all our services.

We also have our own plant hire business providing specialist and bespoke equipment to the group and wider external market.

Our ethos is to provide a fully integrated service for our customers, providing support from conception through to construction. We always seek to provide the most cost-effective solution for your project, through innovation, product development, and a wealth of experience gained from 30+ years working in the industry.

## Our services\_

HOUSEDECK 

COMDECK 

TREESAFE 

FLOODSAFE 

PILING 

UNDERPINNING 



# Health & Safety, Quality & Environmental Overview\_



Certified H&S management system.



Certified H&S, Quality & environmental management system.



Home Builders Federation members.



ASUC founding members. Assured professional & technical competence.



Certified quality management system.



Certified quality management system.



Assured sustainability & H&S procedures. Certified quality audit beyond IOS 9001.



Backed quality assured SSIP scheme.



Certified H&S management system.



Backed quality assured SSIP scheme.



We send less waste to landfill by reducing dig and spoil removal with our foundation solutions.



We use less concrete with our foundation solutions than traditional techniques.



Through our reduced vehicle and plant movement we produce significantly less CO<sub>2</sub> emissions.



Treesafe offers a tree friendly way to build in Root Protection Areas. Approved by Arboriculturists.



We have 30+ years industry experience to support your project.



In-house design team and all designs and engineered solutions are fully underwritten.



Certified H&S, Quality & environmental management system and insurance.



Certified quality management system.



IMS Certified H&S, quality & environmental management systems.



Constructionline Gold members.



Certified quality management system.

# Our commitment to you\_

- ▶ You will receive the same **attention and quality of service** whether you are a small developer or corporate builder.
- ▶ We will provide you with a fully documented **proposal within two weeks** after receiving all required information.
- ▶ Our dedicated in-house design team, using the latest software finite element analysis, ensures that **each project is value engineered**.
- ▶ We will always **operate in the best practice**, complying with health, safety and environmental legislation.
- ▶ We promise to **serve in your best interests** and if we believe that one of our foundation systems is not the most appropriate scheme for your needs, we will advise you accordingly.



## Our clients\_

“ Everyone involved has been very easy to work with, whilst producing high quality work. This sort of approach makes the job much more enjoyable. ”

*Mike Laycock, General Manager,  
C. J. Gowing & Sons*



“ Abbey Pynford’s system is the complete package offering a straightforward fully designed solution, saving us money and 6 weeks from our original programme. ”

*Nick Jude, Construction Manager, Willmott Dixon*



“ We have used Housedeck before and as usual this project ran very smoothly and was completed swiftly. Both the piling crew and the slab crew were excellent – nothing was too much trouble for them and the site was kept clean and tidy throughout. ”

*Tony Draper, Architect & Project Manager,  
Carrington Fox*



“ Abbey Pynford worked fantastically well with us. Through solid communication and collaboration the construction has been a success. I would strongly recommend them for future projects. ”

*Sam Kemp, Project Manager,  
Morgan Sindall Construction*





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