

Welcome to the third webinar in the series
'how to make the ground work for you'

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How precast foundations can improve your build

Topics include reducing programme, ground levels and modular housing.

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Business Unit Manager – Midlands



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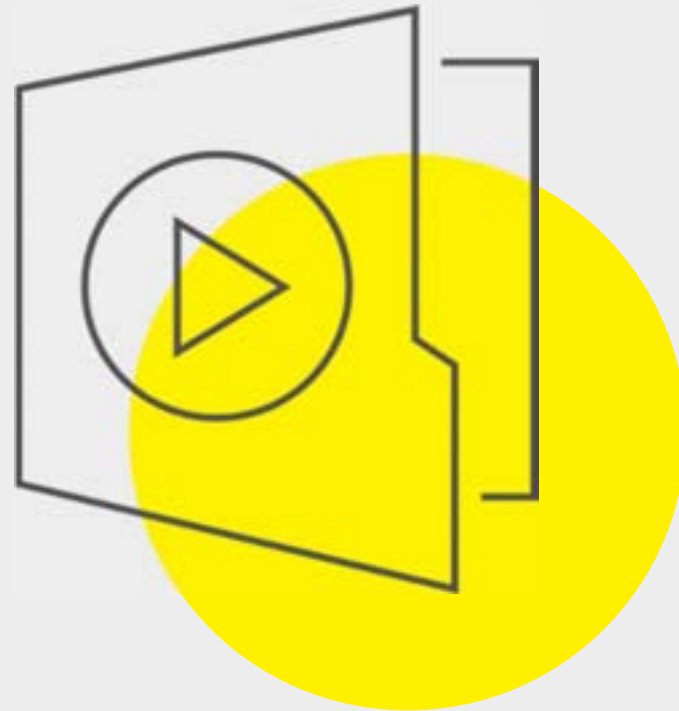
01 Our Business

02 Reviewing the engineering process

03 Offsite manufacture

04 Installation process

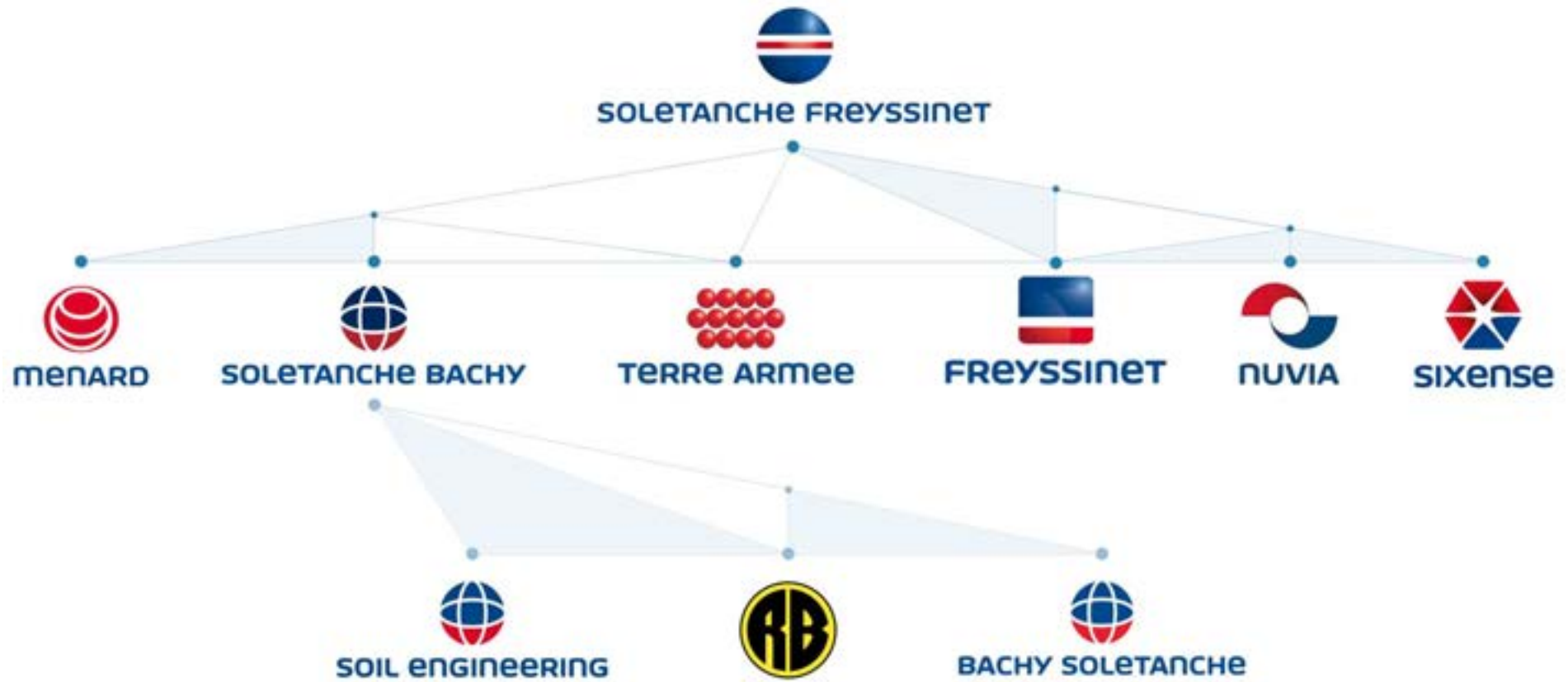
05 Questions



01

Our Business





About RB



About RB



Years of experience...



PILING



**GROUND
IMPROVEMENT**



FOUNDATIONS



**RESTRICTED
ACCESS**



Expertise in...



02

Reviewing the
engineering process



Engineering Process

Project Review

Site Investigation

Loadings and load types

Environment

Preliminary Solution

Preliminary Design

All Sectors

Final foundation solution and final design



Select a support system

Driven Precast Concrete Piles

Driven Steel Tube Piles

Replacement CFA

Displacement CDA

Mini / Restricted access Piles



Modern Methods of Construction

Select an RB precast concrete beams system

Category 3 – Pre-Manufacturing – Non-systemised structural components

Produces a flexible modular foundation

Factory quality and safety

Reduced on site program

In house design team from concept to completion to work with your engineering team



03

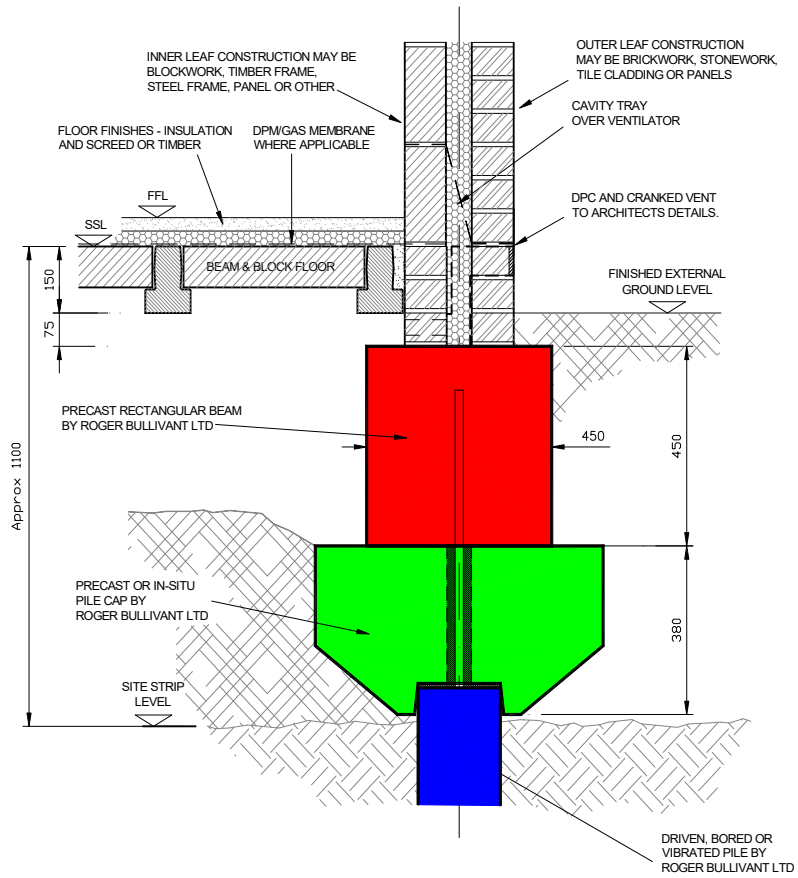
Off site
Manufacturing



04

Installation Process





Precast RBeam





Modular Foundations

Project- Private Housing Development, Stoke-on-Trent St Modwen Homes

Key issues/requirements

- Brownfield site
- Obstructions
- Site to be uplifted / capped
- Volume build program

Project Solution

- Driven Piles
- Pre agreed strategy on obstructions
- Precast beams scheduled delivery





School Building

Project- Melksham Oak Community School – New Teaching Block

Key issues/requirements

- Steel frame
- Quick Program
- Adjacent existing school
- Residential location
- Delivery restrictions

Project Solution

- 177 (250) Precast Driven Piles (Quiet hammer)
- 280lm precast RBeam
- 70No Holding down bolts for steel frame





Care home

Project- TRL Site, Crowthorne

Key issues/requirements

- Steel frame / Traditional mix
- Lift pit slabs / Crane base
- Holding Down Bolt sets
- Quick Program
- Residential location

Project Solution

- 186 (200), 120 (250) & 46 (300) Precast Driven Piles (Quiet hammer)
- 300 SFA pile for Crane base
- 3400lm pile in 10 days
- 750lm precast RBeam in 7 weeks
- Holding down bolts for steel frame
- Lift pit bases





Care home

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Retaining base/wall and house all combined Project- Woolhampton

Key issues/requirements

- Insitu Concrete Retaining wall
- Insitu piled slab
- Integrated with Precast Foundation
- Quick Program
- Residential location

Project Solution

- 300 x 300 Precast Driven Piles for walls & 200 x 200 for plots (Quiet hammer)
- 150m of wall and base
- Integrated with Precast Foundation system
- Maximum retained height 3.25m





Retaining base/wall and house all combined Project- Woolhampton

Key issues/requirements

- In situ Concrete Retaining wall
- In situ piled slab
- Integrated with Precast Foundation
- Quick Program
- Residential location

Project Solution

- 300 Precast Driven Piles for walls & 200 for plots (Quiet hammer)
- 150m of wall and base
- Integrated with Precast Foundation system
- Maximum retained height 3.25m



Thank you for listening

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