

Welcome to the third webinar in the series
'Specialist Restricted Access Piling'

www.roger-bullivant.co.uk

✉ Info@roger-bullivant.co.uk

☎ 0845 838 1801

in @rogerbullivantlimited



Specialist Restricted Access Piling

Oliver Dawson *MEng (Hons) GMICE*
Mini Piling Manager – South East

David Johnson *BEng (Hons) FGS*
Area Manager – South Wales



Contents

01 Our Business

02 ODEX Piles

03 Drill Bar Piles

04 Jack Down Piles

05 Slab Under Ream

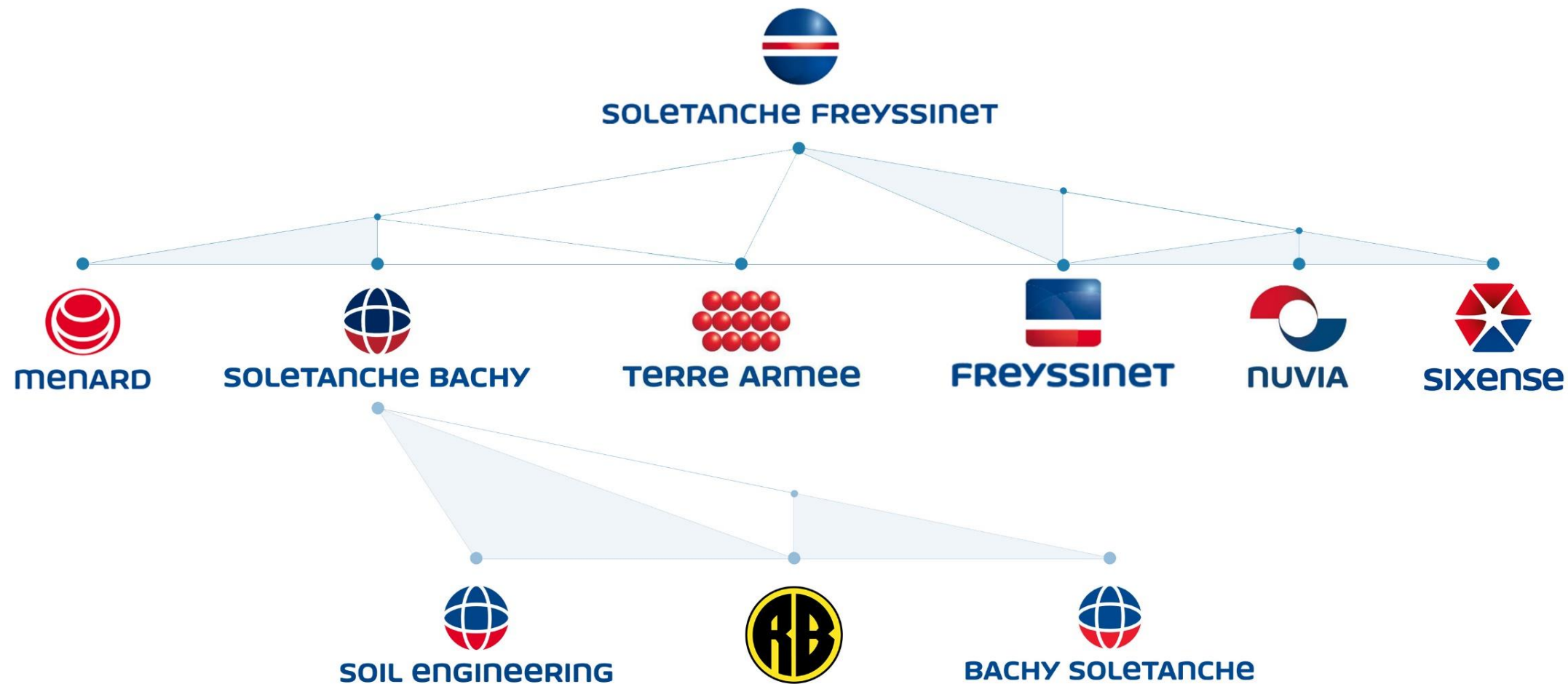
06 Questions



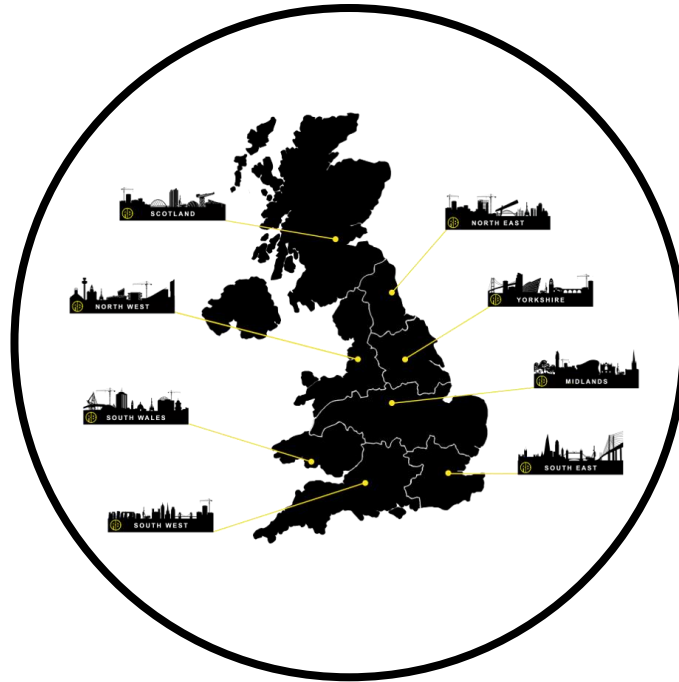
01

Our Business





About



Wealth of experience...



PILING



**GROUND
IMPROVEMENT**



FOUNDATIONS



**RESTRICTED
ACCESS**



02

ODEX Piling



ODS Drilling Systems



Reamer Type System
(ODEX, Super jaws, Tubex...)



Ring Bit Type System
(Symmetrix, Elemex, Numa...)



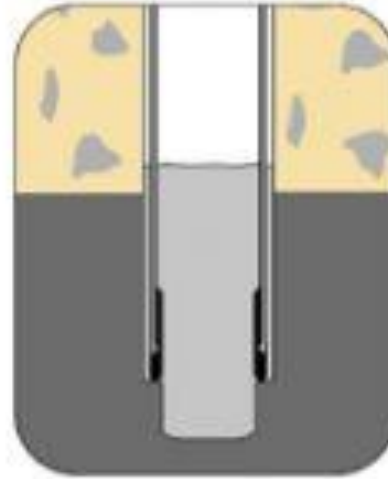
ODEX Installation Process



Progress drilling over reamering the outer casing with the drill system engaged into the drill shoe



Once the casing has passed through the overburden counter rotate the drill system



Withdraw the drill system, hammer and rods



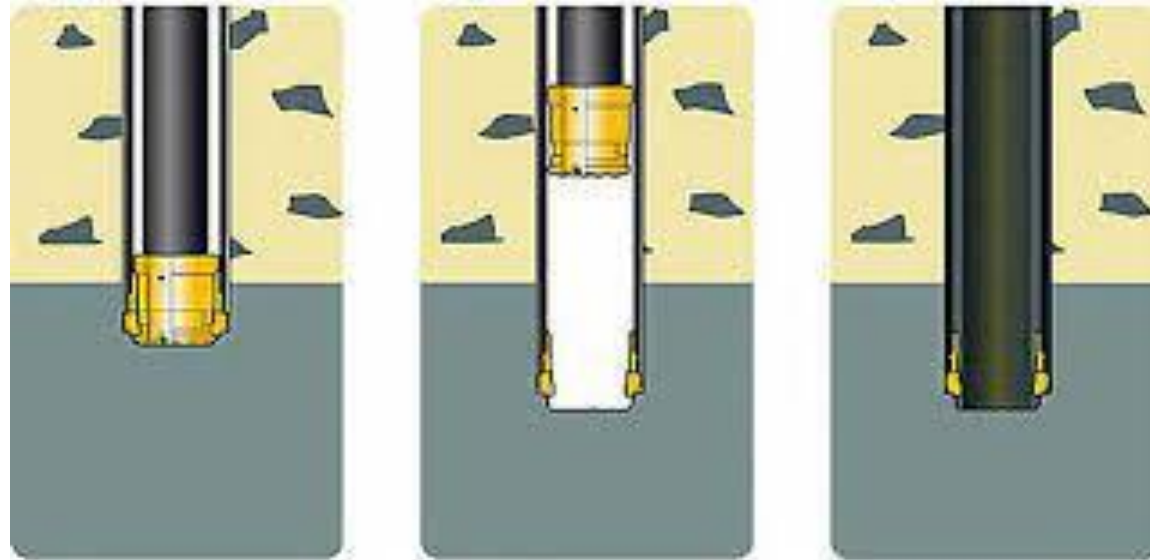
Drill through the drill shoe with standard DTH button bit to form a rock socket



140 ODEX – 500 series mini rotary drill rig



Elemex Installation Process



Drill system engages with the ring bit and both parts rotate as the hammer drives the pile into the ground. Once rock head is reached, the system is withdrawn leaving the ring bit behind





240 Elemex – SD3 Sonic
rotary drill rig



Installation Video



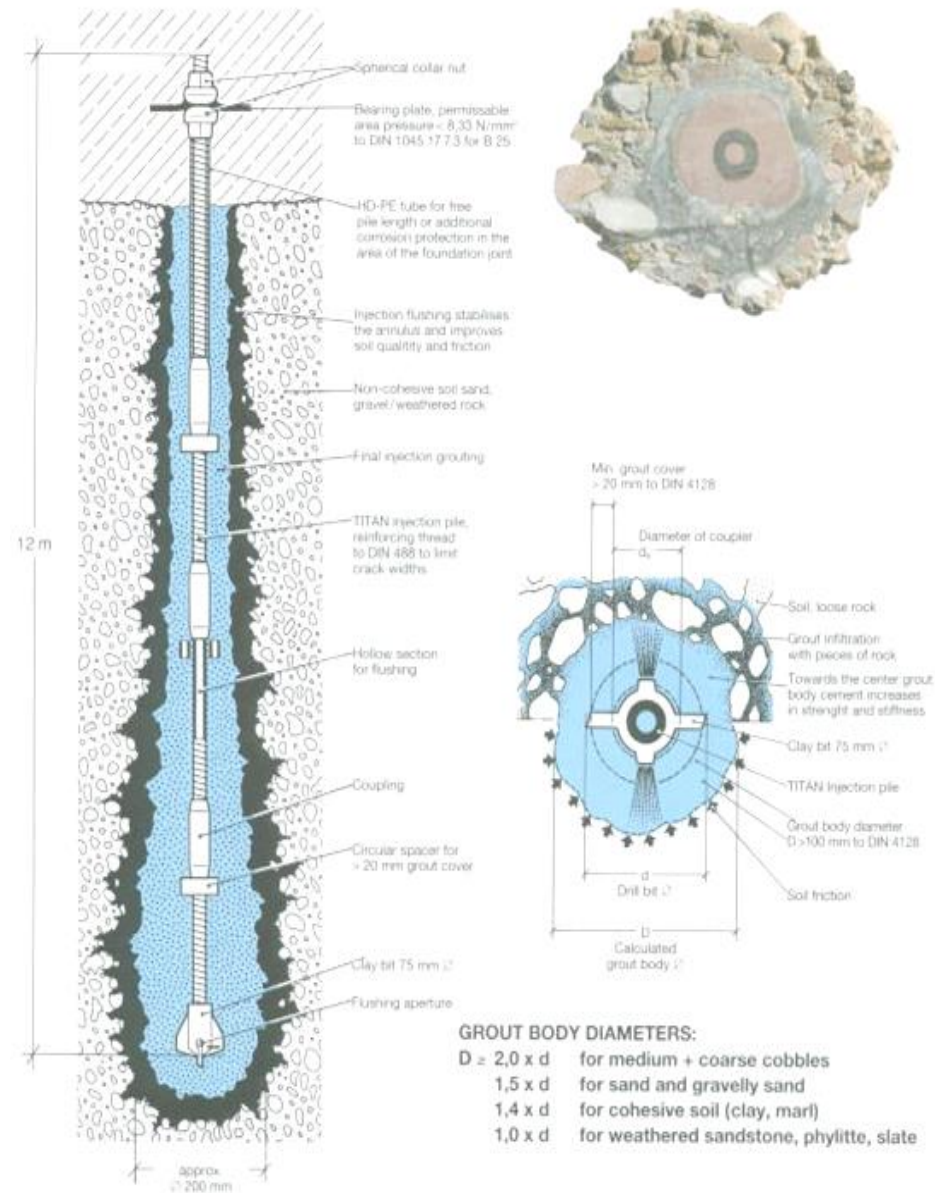
03

Drill Bar Piles



Drill Bar Piles ?

- Self Drilled Micro Piles
 - Soil Nails
 - Rock Bolts
 - Anchor Piles
-
- Continuously threaded hollow reinforcing bars
 - Above ground drifter
 - Air, water or cement grout flush

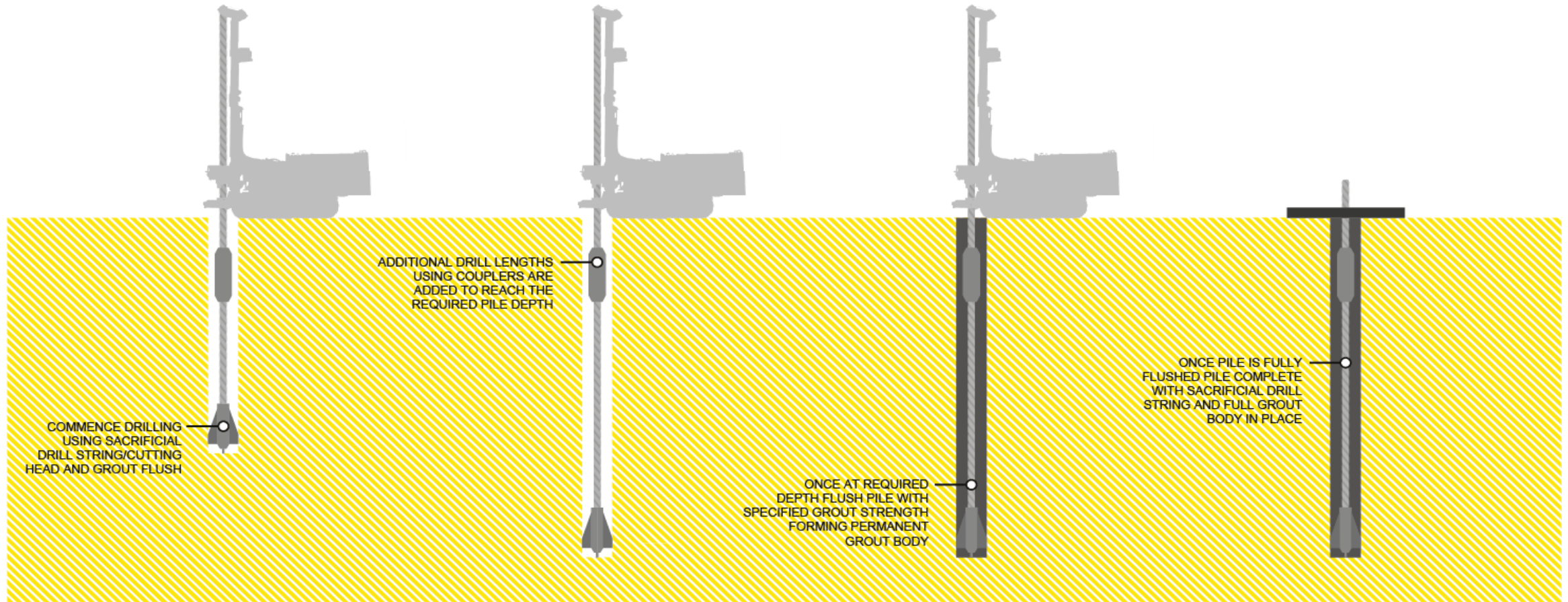




System Components

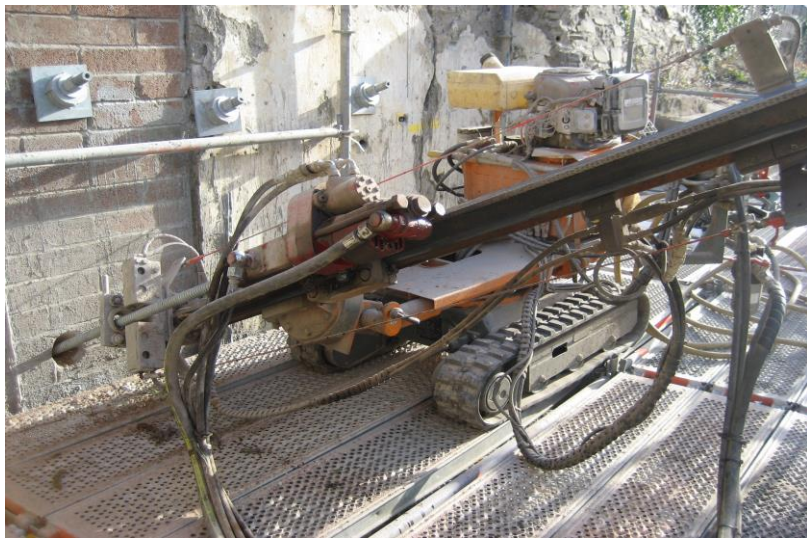
- Bits
- Bar (coatings)
- Couplers
- Spacers
- Nuts / Plates

Installation Process



View of Oversize & Irregular Grout





Plant
Tracked or
excavator
mounted masts



Case Study







04

Jack Down Piles





JACK-DOWN PILING

Silent

Vibration-free

Self-testing

Low Headroom

SWL 150 – 1000kN



Ice House Swansea SA1







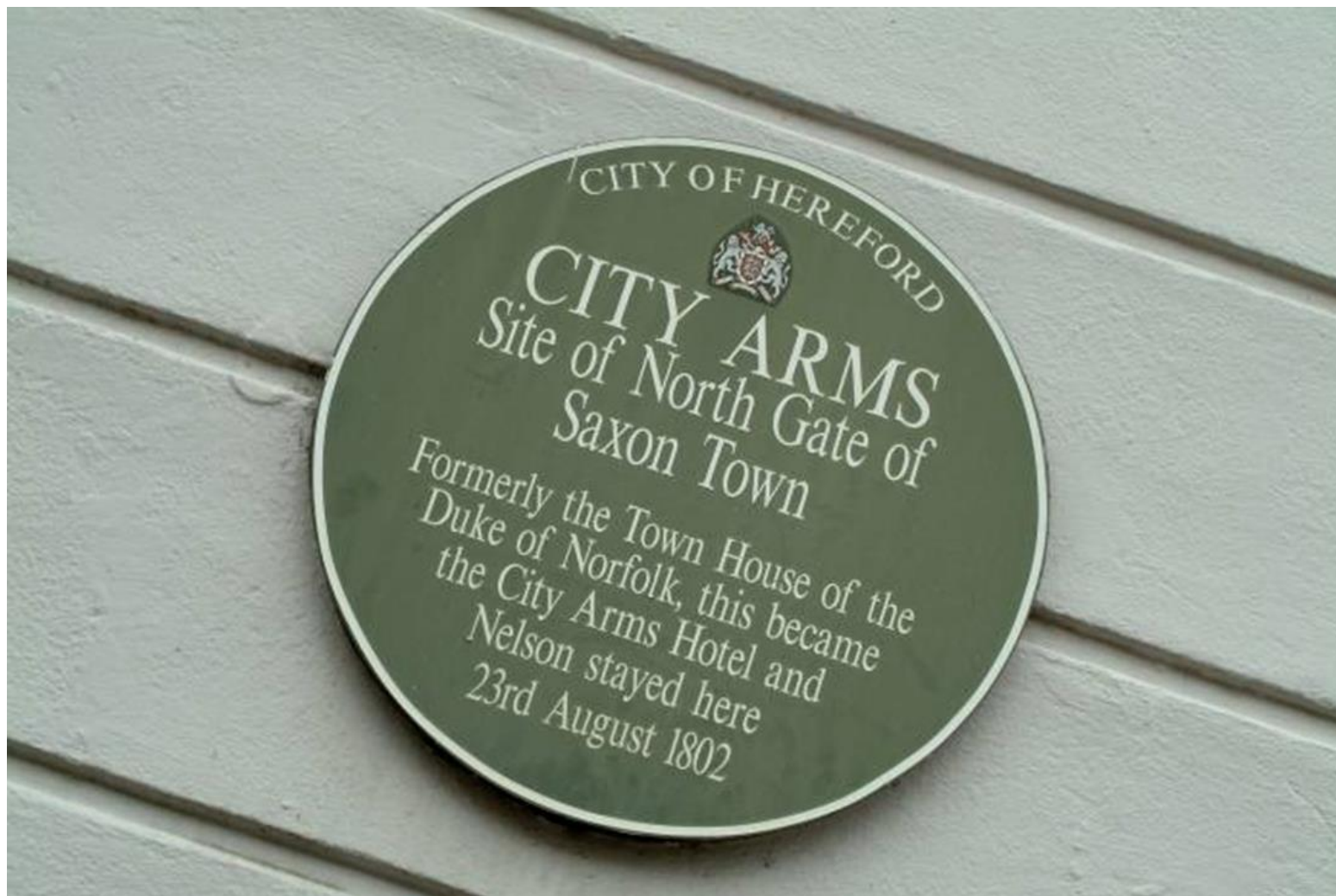






Case Study – Barclays Bank







Issues :

- Access
- Security
- Vibration
- Ventilation
- Dilapidation





Bespoke Electric Jack Down Rig

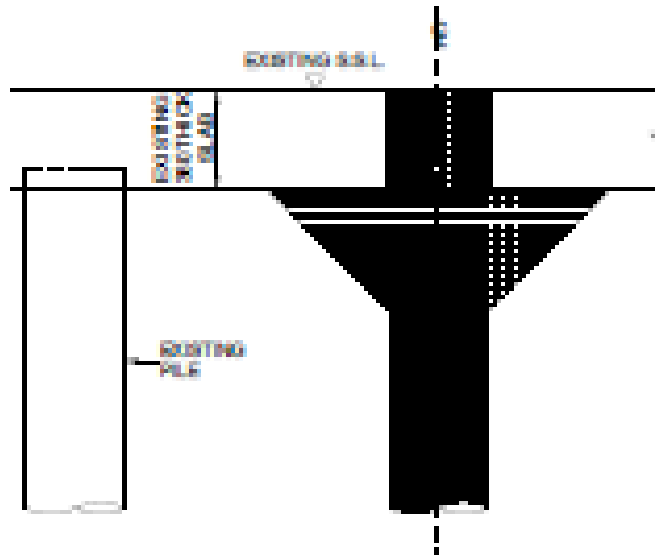


05

Slab Under Ream



Challenge : To construct a 375mm dia Pile with 1300mm dia enlarged pile head
...through 400mm dia cored hole

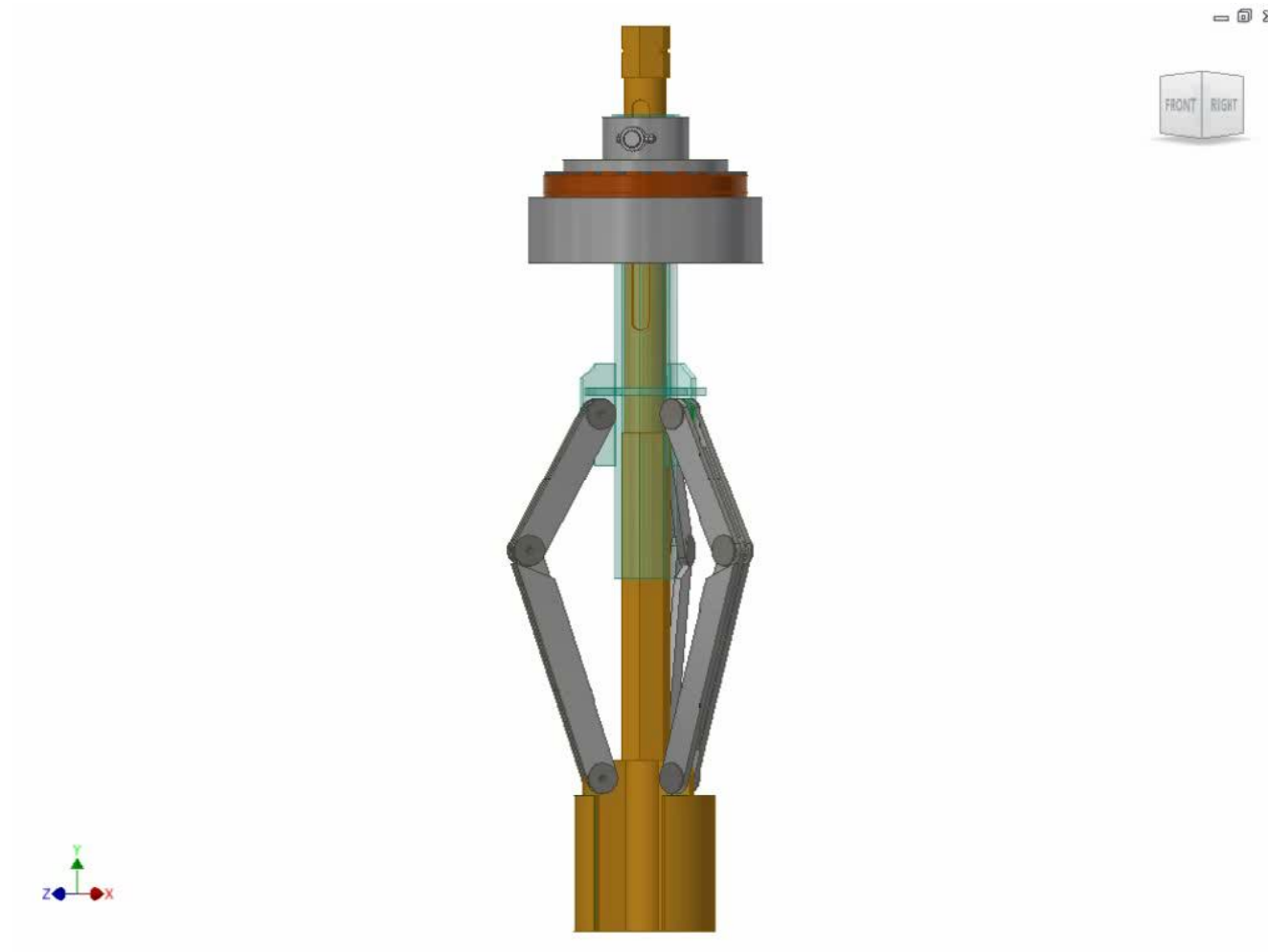


Bespoke Tooling











Presentations

Upcoming Events

The next series of webinars will be based on all things piling and foundations for the Residential sector.

Previous

- An Introduction to Driven Piling
- Wet Displacement Piling
- Foundations You Can Build On
- Ground Improvement
- Rotary Restricted Access Piling
- Driven Restricted Access Piling

www.roger-bullivant.co.uk/webinars-2



Welcome to the third webinar in the series
'Specialist Restricted Access Piling'

www.roger-bullivant.co.uk

✉ Info@roger-bullivant.co.uk

☎ 0845 838 1801

in @rogerbullivantlimited

