

Stability for Life





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- Jacking up and levelling of structures
- Compaction Grouting and Void Grouting below floor slabs
- Patented Hoopsafe® system of structural stabilisation
- Patented Brickbeam® system of structural stabilisation



Founded in 1984 by Chairman, Michael Ellis, Van Elle is one of the UK's leading geotechnical, piling and foundation engineering contractors. We are proud to offer a comprehensive range of geotechnical solutions and have earned an enviable reputation for quality, value engineered systems, innovation and customer service.

Van Elle's five specialist divisions are represented throughout the UK and Ireland by a network of regional offices each offering a wide variety of geotechnical disciplines. Working together within the group ensures that we offer all of our clients the most efficient, reliable and economic solution regardless of their project's size or location. We offer a comprehensive service from design through to installation.

Our commitment to training and development is widely acknowledged throughout the industry. The personnel and training department ensure staff across the group are provided with training and development to achieve competence at all levels. We are also members of the Continual Professional Development Certification Service offering external training to organisations of all sizes and disciplines within the construction industry.

We aim to tailor each seminar to the specific requirements of our client through its content, venue and timing.

We are members of the Federation of Piling Specialists, the British Drilling Association, CITB and a Link-up approved contractor to work within the rail industry. As a founder member of ASUC Plus we are also able to offer the most comprehensive, independent guarantees for remedial, new-build and basement installations. Our Smartfoot® Pre-cast Modular Foundation System has been awarded NHBC, Zurich and LANTAC type approval certification.

Please see the back cover for full contact details for each of our regional offices whilst further information on our products and services can be found on our website.

www.van-elle.co.uk



Van Elle's Geotechnical Services Division offers specialist site investigation and foundation testing expertise to the construction industry including; drilling techniques such as cable percussion, rotary and window sampling and foundation testing techniques such as dynamic testing, static testing and integrity testing.

Services:

- Vetrak® restricted access cable percussive rig
- Cable percussive and rotary boreholes
- Window sampling and dynamic probing
- Geotechnical and environmental drilling
- Insitu testing and sampling
- Laboratory testing
- Noise and vibration monitoring
- Insitu monitoring and instrumentation
- Dynamic pile testing (CAPWAP)
- Static load testing
- Pile integrity testing

Site Investigation

We are able to work in difficult access areas using our unique Vetrak® rig which offers the access capabilities of a window sampling rig with the drilling capability of a cable percussion rig and has proven to be invaluable on restricted access sites.

With our cable percussion, rotary and window sampling rigs we can undertake both large and small contracts with a particular emphasis on obtaining quality data.

Our extensive experience in both geotechnical and environmental drilling, together with the additional back up from the group ensures that our clients benefit from all our resources.

Our drilling techniques are used to establish numerous geotechnical parameters for foundation design, pavement design, soakaways, shallow mine workings, slope stability, ground water levels and excavations.

Working closely with environmental engineers we also have a wealth of experience in environmental soil sampling, well installations and gas/groundwater monitoring.

We are members of the British Drilling Association and our drillers are required to achieve NVQ Level 2 in land drilling.

Foundation Testing

We can provide a full range of specialist foundation testing including dynamic load testing (CAPWAP), static load testing, pile integrity testing, noise and vibration monitoring.

Our team of dedicated testing engineers utilise state of the art equipment to manage projects from inception to conclusion so we can provide a consistency of service for our clients.





The Land Stabilisation Division operates nationwide and has a modern fleet of drill rigs on tracks and tyres ranging from 1.5 to 15 tonnes in weight and capable of drilling boreholes from 50mm to 300mm in diameter.

Our drillers are NVQ qualified and supported by experienced and qualified supervisors, engineers and managers, and we are members of the British Drilling Association.

Services:

- Investigation and subsequent consolidation of abandoned mineral/chalk workings, mine shafts, swallow holes and adits
- Bulk grouting of abandoned tunnels, culverts, sewers, basements and cellars
- Design and installation of temporary and permanent bar, strand and self drilling anchors and soil nails
- Monitoring boreholes for water and gas
- Thermal heat boreholes
- Structural stabilisation using grouting techniques to granular and fill materials
- Drilling and installing rock bolts and tie rods

Open Site Piling

The Open Site Piling Division provides a wide range of piling methods and techniques for all new build developments, major structural projects, industrial contracts and large commercial refurbishments for national developers and contractors, local authorities and civil engineering clients.

Services:

- Augered piles
 - Continuous flight auger (CFA) – 300mm to 900mm diameter
 - Contiguous and Secant piled retaining walls – up to 750mm diameter
 - Hard/soft secant piled walls – up to 750mm diameter
 - Bored piles
- Driven piles
 - Pre-cast concrete – 200mm to 350mm square
 - Steel tube
 - Steel H-Section
 - Bottom driven thin wall steel
- Drilled piles
 - Odex rotary percussive – up to 275mm diameter

Fleet:

- A wide range of CFA rigs, weighing between 25 and 70 tonnes, capable of installing piles up to 28m long
- Pre-cast concrete driven rigs, weighing between 40 and 55 tonnes, capable of installing piles up to 39m long and a 15m single length
- Our rigs are fully equipped with the PL3000 System





Pile types:

CFA piles are suitable for most soil conditions, and being virtually vibration free, are ideal for working in close proximity to existing buildings. We can achieve capacities in excess of 2400kN.

Bored piles of various diameters are able to penetrate a multitude of soil conditions utilising rotary percussion techniques to achieve pile capacities in particularly difficult ground.

Driven piles can be used in a wide range of soil conditions, are quick to install and produce no spoil. We use fully reinforced, pre-cast concrete piles manufactured under factory conditions. The piles can be extended using a mechanical interlocking joint. Our driven piles can achieve capacities in excess of 1000kN.



Open Site Piling

Restricted Access Micropiling

The Restricted Access Micropiling Division offers various design and installation packages utilising a comprehensive range of mini to medium sized rigs. We ensure our clients are given the most cost effective, bespoke solution to meet their foundation and access requirements.

Services:

- Driven micropiles
 - Steel cased – 75mm to 323mm diameter
 - Vemech® pre-cast concrete – 150mm or 200mm square
 - Circular Hollow Section (CHS)
- Drilled micropiles
 - Rotary auger bored piles – up to 1000mm diameter
 - Sectional Flight Auger (SFA) – up to 600mm diameter
 - Rotary percussive – up to 450mm diameter
 - Duplex rotary percussive – up to 450mm diameter
 - Odex rotary percussive – up to 275mm diameter
 - Approved installers of screw piles with all leading manufacturers
 - Drilled hollow threaded bar systems

Fleet:

- Purpose built mini rigs to work within 750mm - 2000mm widths and 2.4m - 10m mast heights, weighing between 1 and 15 tonnes
- Pre-cast concrete, driven piling rigs with 6m mast heights and weights of up to 24 tonnes for the smaller restricted sites
- A wide range of restricted access drilled piling rigs that can provide pile capacities up to 2000kN for SFA, bored and drilled piles

The restricted access foundation packages are suitable for utilisation on new build developments, renovation projects and structural repair.





We have been associated with road, rail and waterways for many years, providing technical expertise and design solutions for a range of projects. All our site teams are fully PTS trained with supervisors and operative training to NVQ Level 2. We are also a Link-up approved contractor for work within the rail industry.

Because of our experience we understand the challenges of these types of projects. We have worked on waterways where rigs have been lifted with cranes to pedestrian access only sites as well as drilling down through canal beds whilst maintaining safe working practices for waterways traffic. We also fully understand the environmental issues of working alongside waterways.

We're used to working track-side and road-side simultaneously in bustling city centre environments, and we also execute works on the central reservations, embankments and hard shoulders of live, busy motorways.

Our full range of restricted access piling services and rigs are detailed on the previous page but we offer an even wider range of services including:

- Installation of screw piles from all the leading manufacturers
- Soil nails
- Ground anchors
- Piled retaining walls
- Contiguous piled walls
- Slope remediation



Smartfoot® pre-cast modular foundations offer the ultimate ‘one stop foundation solution’. With the ability to be installed with or without piles, our unique post tensioned Smartfoot® package provides speed, strength and versatility for a wide range of one, two and three storey structures.

Utilising our wide range of geotechnical skills we can offer a complete fixed price, single contractor, no risk foundation solution. Smartfoot® is both LANTAC and NHBC approved and is available with an independent insurance backed guarantee.

Smartfoot® installation with piles

Upon completion of the piling works, the piles are accurately cut down to the required level. The pile caps are then cast in position allowing the Smartfoot® beams to be lowered into place. Finally, they are post tensioned forming the complete and perfectly level foundation system ready to be built up to DPC.

Smartfoot® installation without piles

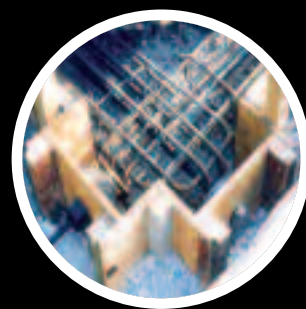
The ground is prepared to the required levels and to achieve the minimum ground bearing capacities. This can be improved with the introduction of a compacted granular material placed beneath groundbeams.

The pre-cast foundations are positioned as designed to a 25mm deep blinding which acts as a levelling base. The beams are then post tensioned forming the complete and perfectly level foundation system ready to be built up to DPC.

- Quality and speed
- Cost effective
- Installed to high tolerances (+ or - 3mm)
- Can be installed with or without piles
- Completely dry installation – not weather dependent
- Full design and installation service
- Multiple choice options for both traditional and modular structures

We also provide a full design and installation package for insitu ground beams and slabs.





Our team of experienced engineers and expert operatives design and install both traditional and patented in-house subsidence repair packages as well as developing a range of innovative, bespoke restoration and refurbishment solutions.

Services:

- Underpinning
- Contiguous and secant piled retaining walls
- Jackdown piling
- Jacking up and levelling of structures
- Compaction grouting and void grouting below floor slabs
- Patented Hoopsafe® system of stabilisation
- Patented Brickbeam® system of stabilisation





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