

OptimaFoundationsLimited

Providing a professional and efficient service in the specialist field of piling and foundation systems



Steel Cased Driven Piles
Piling/Reinforced Concrete
Auger Bored and Drilled Piles
Underpinning and Pressure Grouting

Steel Cased Driven Piles

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Steel Cased Driven Piles

Steel cased driven piles are generally used for underpinning of existing structures or to support new foundations. This system of piling is particularly suitable for use within unstable ground and soft or water bearing sub soil.

Optima Foundations Limited offer steel cased driven piling systems ranging from 100mm diameter to 320mm diameter installed using drop hammer rigs or vibratory hammers.

Our range of piling rigs are specifically designed to work within restricted access and headroom situations. The majority of our rigs will pass through a standard doorway.

Pile diameters and approximate working loads available are as follows:

- 100mm diameter SWL 50KN
- 150mm diameter SWL 100KN
- 220mm diameter SWL 200KN
- 320mm diameter SWL 300KN



D1000 drop hammer machine installing 220mm diameter steel cased driven piles on new housing development in Ripon.



D1000 drop hammer machine installing 220mm steel cased driven piles on new commercial office development.

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D500 drop hammer machine installing 150mm diameter piles on self build site.



D500 drop hammer machine installing 150mm diameter piles on self build site.



D500 drop hammer loaded for delivery on purpose built lorry.



150mm diameter steel cased driven piles installed with Grundomat with limited headroom/access restrictions on Job Centre in Guisborough.

220mm diameter steel cased driven piles installed adjacent to existing wall to enable new basement construction.



Steel Cased Driven Piles

Piling/Reinforced Concrete Works

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Piling/Reinforced Concrete Works for New Build Applications

Optima Foundations Limited specialise in installation of piles and ground beams for new build applications both domestic and industrial.

We offer a full construction package from design and installation of piles through to design and installation of ground beams (or installation only to engineer's design details).

Optima Foundations Limited can offer a cost effective foundation package from small self builds through to larger property developers.

We also specialise in the installation of piles and ground beams for domestic extensions and conservatories.



Reinforced concrete raft slab for new extension.



450mm x 450mm ground beams incorporating heave protection

Concrete placement on new farm house development.



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150mm steel cased piles awaiting ground beam construction.



150mm steel cased piles and reinforcement within excavated trench, awaiting concrete placement.



450mm x 450mm ground beams installed within Pecalif Shuttering System.



450mm x 450mm ground beams installed within Pecalif Shuttering System.

Reinforced concrete raft slab for new extension.



Piling/Reinforced Concrete Works

Auger Bored & Drilled Piles

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Auger Bored and Drilled Piles

Bored piles are generally used in conditions where driven piles are unsuitable i.e. clay heave/shrinkage situations or where tensile loads are to be accommodated within the piles.

Our drilling rigs can also be adopted for down the hole hammer drilling to allow piles to be socketed into rock strata or for pre-drilling through obstructions.

Optima Foundations Limited offer a range of bored piles from 100mm up to 300mm in diameter.

Safe working loads are dependent on the nature of the bearing strata into which the piles are founded.

Our drilling rigs have been exclusively manufactured for us to suit our individual requirements and are particularly suited for working inside domestic properties in low headroom and tight access situations. All of our rigs can fit through a standard doorway and work within limited headroom.



Auger rig with limited headroom/access situation.



200mm augered piles installed with full heave precautions.

200mm augered piles installed with full heave precautions.



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Underpinning Works

We offer a full design and construction package for underpinning of subsidence affected properties from design and construction of piles through to design and construction of reinforced concrete rafts / needles. In every case we will offer a cost effective solution designed to support the area to be underpinned. We can also undertake the superstructure repairs if required.



Mini piled underpinning scheme awaiting concrete placement.

Pressure Grouting Systems

Optima Foundations Limited offer a range of cement pressure grouting techniques.

The following are a sample of the many applications in which cement pressure grouting may be used:

- Consolidation of abandoned mine workings
- Filling of redundant sewers
- Strengthening of existing floor slabs
- Stabilisation of retaining walls
- Consolidation of loose ground



Typical pressure grouting setup.

Grouting set up for consolidation of old mine workings in Lincoln.



Underpinning & Pressure Grouting

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Optima Foundations Limited was established to provide a professional and efficient service in the specialist field of restricted access mini piling and reinforced concrete works.

The workforce at Optima Foundations are fully committed to health and safety, quality and production.

We strive at all times to give clients total commitment on all contracts large or small.



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