

Keller Foundations

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Sainsbury's Supermarket, Bognor Regis, West Sussex
Driven Precast Concrete Piling Works

Project Documents

Drawings 22932 00050 (hand annotated), 22932 00051

Specification Generally in accordance with ICE SPERW

Site Investigation Report Geotechnical & Environmental Site Investigation ref: GE280309

Scope of Works

278 no. foundation cap piles with axial loads up to 675kN, 25kN lateral load.

295 no. slab piles with axial loads up to 650kN

Design

The piles offered are 220mm and 250mm square driven precast concrete piles for axial loads of up to 675kN each.

The piles will be prestressed and reinforced with 4no. 7.5 or 9.3mm diameter prestressing strands.

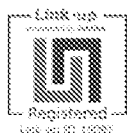
A DC-2 concrete mix with characteristic strength of 45N/mm² at 28 days has been allowed for.

The pile design is based on a factor of safety of 2.0 in compression.

At the commencement of piling work, we propose to carry out a series of trial drives across the piling area. These will be in working positions and will enable the driving resistances to be correlated against the available borehole information, and the results will be used in determining driving criteria and pile lengths to be adopted in the construction of the remaining working piles.

This offer is generally based on the ICE Specification for Piling and Embedded Retaining Walls

Pile spacing centre to centre should be not less than three pile diameters. Pile heads should be tied adequately in both directions in plan.

Installation

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The piles are driven by a heavy crawler mounted rig.
Details of the piling plant to be utilised along with indicative noise and vibration levels are attached.
Testing

We have included for a non working preliminary static load test and for 2% dynamic pile testing.

We have not included for integrity testing which is not applicable to precast piles.

Programme

This programme is based on carrying out the works in a single visit to the site using two piling rigs.

A programme period of 5 weeks is required for completion of the works.

This programme is based on a 47-hour working week, working 10 hours per day Mondays to Thursdays and 7 hours per day on Fridays.