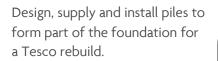
## CASE STUDY New Tesco Store Dudley



## **PROJECT OVERVIEW:**

Client:
Sub-contracted to:
Engineer:
Sector:
Value:
Description of Works:

## Tesco Plc Bowmer & Kirkland W.A. Fairhurst Commercial £240k







## **TECHNICAL DETAILS:**

Type of Piling System:	Continuous Flight Auger (CFA)
Soil Conditions:	Made Ground/Clay/ Mudstone or Broken Rock
Max Load kN:	Up to 620kN
Length of piles:	Up to 24m
Type of Testing:	Integrity
No. of piles installed:	696 No.
Diameter of piles:	350mm



The Dudley site was geotechnically very difficult due to old mine works leaving varying rock profile and strata material. Significant site probing was required, along with profiling of the rock levels to give strength of material. Grout stabilisation of mine workings had to be undertaken prior to piling to mitigate settlement and subsidence; the pile schedule was then prepared based on the grouting records.

Due to a very intense programme of works; the piling programme was accelerated using a second CFA rig in order to meet the clients (Tesco) programme and delivery date.

As the design was based on a F.O.S of 3.00, no load testing was required.

