

CASE STUDY

Residential Development, Brandesburton



Greenpiling

PROJECT OVERVIEW:

Client:	Charles Church
Sub-contracted to:	Charles Church
Engineer	Martin Walsh Associates
Sector:	Residential
Value:	£224k

Description of Works: Installation of piles and ground beams for executive style homes.

TECHNICAL DETAILS:

Type of Piling System:	Pre-cast Concrete
Soil Conditions:	Top Soil/Clay/Glacial Till
Max Load kN:	Up to 450kN
Length of piles:	11.5m to 15.2m
Type of testing:	Dynamic
No of piles installed:	249 No.
Diameter of piles:	270mm sq.

Design and installation of pre-cast concrete piles and ground beams were carried out to form the foundations for detached executive style homes at Brandesburton.

The site investigation report revealed roots in clay, which is considered a heave risk; therefore fully reinforced concrete piles were used due to their considerable tension strength.

After installation, the piles were cut down to expose steel reinforcement bars and concrete ground beams were installed. Steel reinforcement cages and timber shutters were placed in the trenches before the concrete was poured to complete the ground beams. Approximately 1335 linear metres of ground beams were installed.

