

Project Overview

Client :	Hart Builders Ltd
Engineer :	Quattro Consult
Sector :	Residential
Value :	£220k
Description of works :	Design, supply & install steel tubular piles to form foundations.



TECHNICAL DETAILS

Pile Type :	Steel Tubular Pile
Pile Length:	10m - 15m
Pile Testing:	Static Load Testing
No. of piles:	379 no.
Pile Diameter:	244mm
Working Load:	Up to 800kN



NPL were subcontracted to design, supply and install steel tubular piles for a new low carbon, Eco-friendly, residential area just outside Edinburgh city Centre. The project would see over 120 new energy efficient homes, made up of 1, 2 and 3 bedroom apartments.

Concerns were raised about the levels of vibration that would occur due to our piling method in the surrounding area prior to works commencing. Two vibration monitors were set up on site boundary to monitor and record levels, we set strict limits on our monitors assuring that we were preventing any structural damage to any surrounding residential buildings.

The piling works were completed in 3 weeks, a week ahead of the program. During this 4 static tests were carried out and completed within the program of works.