

M Shed, Forth Ports

Grangemouth

Commercial Development

Case Study

Project Overview

Client:
Engineer:
Value:
Description of works:

Luddon Ramage Young £250k Design, supply & install precast concrete piles to form foundations.





TECHNICAL DETAILS

Pile Type: Pile Length: Pile Testing: No. of piles: Pile Size: Working Load: Precast Concrete 24m - 29m 12no.Dynamic Tests 290no. 250mm sq 120 - 270kN Compressive + 40kN Shear

NPL were contracted to design, supply and install 290No precast concrete piles for a new Transit Facility at Forth Ports, Grangemouth. The piles had to be designed to sustain compressive loads of between 120 and 270kN, as well as a shear load of 40kN throughout all piles in the project.

Despite the relatively low loads, a 250mm sq. precast concrete pile was required due to the depth of the underlying soil strata, as these piles are more robust and less likely to break during installation into deep ground.

The pile design was based on the similar work done for the same client in the immediate vicinity, which meant we were able to refer back to existing records in order to streamline the design process.

The project took a total 2 weeks to complete, 2 weeks ahead of program. All 12no. dynamic tests were carried out during this time.







