
PROJECT: DOLPHIN 11 REPAIR WORKS, PORT OF TYNE, SOUTH SHIELDS

VALUE: £200,000
ROLE: MAIN CONTRACTOR
DATE: MARCH 2012
COMPLETION: MAY 2012

CLIENT: PORT OF TYNE AUTHORITY
MARITIME HOUSE
TYNE DOCK, SOUTH SHIELDS
NE34 9PT

- 100m³ of concrete installed
 - Complex temporary works scheme
 - Self-levelling concrete utilised
 - Complex sleeve repair undertaken under water to damaged raking pile
 - Diving Works
 - Difficult access due to presence of existing structure
 - Works undertaken within extremely busy operational car port
 - Tidal works
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An existing mooring dolphin within the Tyne Car Terminal had been damaged by a large vessel causing substantial damage and required repairs to be carried out to enable it to be used by the Port of Tyne Authority.

The works comprised of the installation a complex temporary works soffit system, dowelling into the existing structure, fixing reinforcement prior to installation of concrete. The raking piles of the existing structure made the installation difficult and works were carried out during low tidal windows.

A self-levelling concrete mixture was successfully utilised to ensure that there were no voids created during concreting as the concrete was required to tie in with the existing structure soffit.

A complex underwater pile repair was undertaken to two of the raking piles, this was carried out using diving operatives and an underwater concrete.



Installation of soffit formwork



Concrete installed and diving operation underway

CHALLENGES

Difficult access due to presence and nature of the existing structure.

Works were undertaken within extremely busy operational car port, requiring constant liaison with Tyne Car Terminal. During the works no disruption to the car terminal was caused.

PROGRAMME

An extremely challenging programme was set by the client to minimise disruption to the operational car terminal. All programme requirements were met and the works were completed within budget.