

145036 Western Ferries (Clyde) Ltd – Kilmun Pier Overnight Berth Reconstruction. Outline Method Statement.

Kilmun Pier is used by Western Ferries (Clyde) Limited as additional berthing facility.

The works to the secondary berthing facility at Kilmun Pier includes:

- construction of the new overnight structure and safe crew access. New structure is designed as monopile structure comprising 5 isolated vertical piles. New crew access is designed to be supported on bearing piles.
- Installation two new shore mooring points.

New berthing/mooring structure is designed as a monopile structure comprising 5 isolated vertical piles. The size of a pile is calculated as 914mm diameter, driven into rock. The design toe level will be reached by constructing rock sockets.

Proposed Schedule of Works

1. Mobilisation
2. General Site Clearance
3. Monopiles Installation for New Berthing Structure
4. Miscellaneous Works (Ladders, bollards, Fenders Installation, etc.)
5. Access Structure Installation
6. Demobilisation

Outline Method Statement

Mooring piles

The mooring piles will be installed by marine plant.

Firstly, temporary casing piles will be installed. Piles 1.1m dia., approx. 25m long will be lifted using crane installed on barge. They will be pitched and vibro-driven than impact driven to rock level.

After that a drilling rig will be used, placed on top of each pile, drill diameter approx. 1.05m. Drilling will be carried out approx. 6m into rock. Excess of material will be removed and newly formed rock socket will be filled with concrete.

Permanent 914mm dia. mooring piles will be lifted and placed into the wet concrete on to socket.

Temporary casing piles will be removed after concrete has set.

Piles for Access Platform

Marine plant will be used for access platform construction.

All piles will be pitched and vibro-driven than impact driven to refusal level.

Rock anchors will be installed when required.

Miscellaneous Items.

Ladders, mooring bollards, fenders etc. will be installed using mobile crane installed on barge.

When all installation works are completed, the temporary steel works will be removed.