SPI PILING
A E YATES GROUP

CASE STUDY

DEEP WATER TANK
NEWCASTLE, TYNE AND WEAR

Conventional Piling

CONTRACT NO.
C21405

CLIENT
TOLENT CONSTRUCTION

DURATION
6 WEEKS

We were engaged by Tolent Construction to supply and install steel and sheet piles to a design developed by our client.
The project is the redevelopment of an existing berth to form a new heavy loading berth supporting the North Sea offshore wind energy sector. To carry the additional loads steel and sheet piles were required to increase the strength of the existing structure.
Steel tubular piles were driven through the existing deck using two methods. Firstly steel tubular piles were installed with our ABI TM20 Telescopic Leader Rig at lengths of 19m.
The piles were then extended, by welding a further length of tube, another 12m and impact driven using a crane suspended BSPCX110 hydraulic impact hammer. These piles will be carrying loads up to 360te each.
The berthing wall element required the installation of new steel and sheet piles. A combi wall construction, formed from circular hollow sections with AZ infill sheet piles, was installed by conventional methods utilising a 250te lattice crawler crane and both crane suspended vibratory hammer and impact hammer.


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