

TMS Maritime is a leading UK specialist in marine civil engineering, ancillary floating plant and diving services

Client: Portland Port Authority

Due to the increased frequency of cruise ships landing in Portland, in 2016 TMS were engaged by Portland Port Ltd (as the Principal Contractor) to design and construct two new mooring dolphins and connecting bridges for the mooring of cruise ships. TMS formed a Joint Venture partnership with Red 7 in order to undertake this project.



Project Value: £3,100,000

Duration: 24 weeks starting October 2016

TMS engaged Ramboll UK to design the two dolphins each of which consisted of seven 1420mm diameter x 28m long single piece tubular steel piles. Two steel carousels weighing 30t were used as both temporary works piling gates and permanent works support to the dolphin deck structure. Octagonal pre-cast concrete permanent formwork was placed onto the carousel and each pile was then partially filled with reinforced concrete. The steel reinforcement cage was built within the permanent formwork before each dolphin structure was filled with 700m³ of concrete over three 12-hour pours.

TMS installed a long access bridge measuring 79m in length in order to connect the two dolphins. A smaller bridge, measuring 11m in length was also installed to connect the inner dolphin to the shore.



All works were undertaken using a jack-up barge, a 175t crane, carry barge and varying workboats. This was one of the largest value projects undertaken in the 25 year history of TMS Ltd and was successfully completed on time and without incident.

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