



SUBSEA PROTECTION SYSTEMS



HARBOUR PROTECTION

Quaywall, Propeller and Thruster Scour Protection

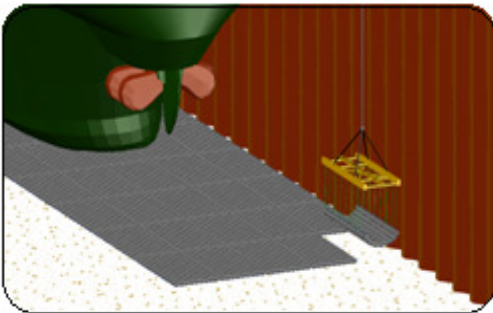


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PROPELLER & THRUSTER

In order to increase their transport efficiency, modern ships are built with increasingly larger propellers and bow thrusters. When such vessels approach a quay, the propeller induced flows may cause serious local scour and damage the quay structures.



QUAYWALL PROTECTION

High velocities of wake generated from a ships propeller, or from bow and stern thrusters, ultimately cause scouring issues. With this in mind, a need for dredging will be required to restructure the seabed, with an ongoing cost involved.



CONCRETE MATTRESSES

Installing SPS concrete mattresses directly onto the harbour floor below the vessels propellers/ thrusters, ensures any quay wall toe is covered and alleviates scour problems, and the possibility of the undermining of the quay wall structure.

- Designed for stability against vessel propeller, thrusters and current force.
- Excellent long term design life.
- Quick release installation equipment available for hire.
- Cost effective scour solution.
- Profiled mattresses for all quaywalls.



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