

Marine Quality Control System

Concrete Mattress systems are installed underwater where they cannot generally be seen, and needs to be constructed using a suitable Marine Quality Control System. Proserve use a proven risk management system suitable for marine works, supervised by an experienced Professional Engineer. The system covers all aspects of the design, construction engineering, fabrication and installation of the Concrete Mattress, giving Contractor efficiency, as well as construction quality.



Fabrication



Dredging and Bed Preparation



Mattress Installation



Toe Stone Placement

Marine Working Conditions

- Waves, Currents, Tidal working, Vessel Movements
- Diver working conditions, depth and visibility
- Seabed strata, type and profile
- Sediment transport, Obstructions and Environmental
- Limited access for construction and inspection

Risk Analysis

Construction Drawings

Installation Guidance

- Mix development, testing, pumping trials
- Bed preparation, including toe trenches and at walls
- Temporary works design for mattress filling
- Site arrangements, preparation and back up plant

Fabrication

- By Proserve's in-house fabrication workshop
- All fabricated items pre-checked by Engineer

Engineering Support and Supervision

- On site, by experienced Engineers

Quality Control and Records

- Bed Preparation
- Mattress Preparation and Installation
- Mattress Filling
- Edge Seals and Toe Stone details
- As-Built Record Drawings

Inspection and Maintenance Guidance



Establish Marine Working Conditions