



**PILING
ANCHORING
DEWATERING**

NATIONWIDE

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ASP Piling is one of the most experienced and comprehensive providers of piling and anchoring solutions to the construction industry in Australia. Our sister company Australian Dewatering Systems is the leading dewatering service provider with Australia's largest fleet of water treatment settlement tanks.

Revetment Walls Pre-Cast System



Revetment walls built using ASP Piling's precast panel system offer supreme protection from erosion.

A revetment wall is a permanent structure designed to prevent the types of subsidence that commonly occur adjacent to waterways and the ocean. By definition, it is a protective covering on an embankment of earth designed to maintain the slope or to protect it from erosion.

Revetment walls are built to local council requirements along the council's revetment regulation line which is determined by a waterways search. In general, property owners are responsible for maintaining revetment walls that benefit their land. Like all structures, a revetment wall has an engineered design life and requires regular and proper maintenance to prevent structural deterioration.

Preventative maintenance including routine inspections by a suitably qualified engineer will extend the life of the wall and prevent premature structural failure. The Revetment Wall System employed by ASP uses pre-cast concrete panels for a durable and highly efficient build.

Methodology

Steel sheet piling is driven in the water area parallel to and beyond the proposed revetment regulation line and dewatering used to prepare the line for installation of the wall panels. The line is then surveyed ready for panel installation. High quality interlocking pre-cast panels are positioned through the use of a guiding rig and are driven into position by means of water jetted through pipes running internally through the length of the panel.

Once the panel has been jettied into position, the water jet head is detached and the guiding rig is repositioned for the driving of the next panel. Once the revetment wall is in place and the rock or scour protection is in place, the steel sheet piles are then removed, allowing the concrete wall to function correctly along the revetment regulation line.

Advantages

Efficient: Pre-cast panels ensure better quality control than poured in place systems or rock wall structures due to the rigours of the marine environment.

Quick: Pre-cast Revetment Wall Systems can be installed efficiently with various ranges and sizes available.



ASP Revetment Walls



Above: Partially completed revetment wall with dewatering taking place between the wall and the temporary line of sheet piling. The top edge of the wall is finished with capping beams. **Left:** Lifting a panel to the revetment line. The capping beams that top the wall can be seen in the foreground.



Above right: The water jetting head attached to the top of the panel prior to lifting.

Above left: Guiding the lifted panel into the rig.

Left and right: Jetting the panel into final position.



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ASP Piling Pty Ltd PO Box 6247, Yatala, Qld 4207