



Location
Dampier, WA

Client
Department of Defence

Duration
August - October 2007

Contract Type
ASDEFCON Construct Only

DAMPIER PORT PATROL BOAT BERTH

Adding a dedicated, all tide Navy berth to the Dampier Cargo Wharf

The Royal Australian Navy's Armidale Class Patrol Boats are used to patrol Australia's northern waters from Cairns in the east through to the North West Shelf in the west. With no facility in WA for these vessels to berth, the Patrol boats have in the past used general cargo berths in Dampier and Port Hedland resulting in difficult access/egress issues associated with the large tides at these ports. To solve the problem, the Department of Defence contracted Marine & Civil to construct an all tide, pedestrian access structure to the Dampier Cargo Wharf which would be dedicated for the use of the Navy.

The structure consisted of:

- A three pile berthing dolphin to accommodate the stern of the patrol boats
- A fabricated steel staircase module with 5 platforms for access to and from vessels at different tides



- Additional bollards on the main Cargo Wharf structure
- Lighting and electrical works

In the lead up to the project, the design consultants discussed the works with Marine & Civil to develop a design which could be built from the existing wharf without working from barges. Marine & Civil provided innovative design suggestions including vertical tripod dolphin structures



which made this possible. Due to limited penetration given the presence of underlying granite bedrock, "fins" were welded to the piles to increase surface area and therefore tensile capacity. At all times, the works were coordinated with regular liaison between the Marine & Civil and the Dampier Port Authority to ensure minimal disruption to port operations and construction works.



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