



**Owner :** Port of Melbourne Corporation  
**Architect :** Kellogg Brown & Root  
**Engineering consultant :** Maunsell

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**Subsidiary(ies) :** Freyssinet Australia

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**Beginning of works :** 08/2006  
**End of works :** 03/2008

### Description of the work :

West Swanson Dock is a marine terminal situated within the Port of Melbourne. It is a 980m long concrete reinforced wharf and comprises of 4 shipping berths. The terminal is operated By DP World and is owned by the Port of Melbourne Corporation. Due to its age and surrounding environment the supporting concrete crosshead beams, steel piles and sheetpile wall have begun to deteriorate.

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### Freyssinet mission :

Freyssinet Australia was engaged on a 'design & construct' contract by Port of Melbourne Corporation to undertake remedial concrete works including the repair of the front fender and cross head beams using hydro-demolition and dry spray gunite techniques. Repair of steel piles and sheetpile wall using various techniques including concrete encasement and protective jacketing (Denso 'Seashield'). Additional protection was provided in the form of 3 independent impressed current cathodic protection systems. 2 discrete titanium anode systems for the crosshead and front fender beams and 1 fully submerged, specially coated titanium anode system for both the steel piles and sheetpile wall.

