

EASTERN BOAT HARBOUR DEVELOPMENT WHANGAPARAOA, AUCKLAND

DRAINAGE

Products: Cordrain

Problem

This site had extensive groundwater problems due to a large catchment area funnelling subsurface flows down to the boat harbour basin. An effective sheet drainage system was required behind the proposed seawall to relieve hydraulic pressure build up during the key construction phases of when the seawall panels were backfilled and prior to flooding the boat harbour.

Solution

Cordrain provided the required drainage capabilities for fast efficient removal of ground water behind the concrete wall panels. Cordrain is very easy to install with limited labour required, saving time and money over the conventional method of a gravel drainage layer.

Cordrain is a composite vertical drainage blanket, which consists of a plastic cusped inner core (cusped on both sides), fitted with a high flow non woven geotextile filter fabric (bonded on one side only). Cordrain is specifically designed to reduce hydrostatic pressure behind walls, one of the major causes of wall failure.

It was found that for this project on average a 2 man team could install a 25m roll in 2 hours using a prop and glue fixing method. Another method of installation commonly used is a ramset and batten fixing method which can potentially improve on the speed of installation.



Installation of Cordrain against the concrete wall



Completed cordrain installation on harbour walls



Eastern Boat Harbour in use

Client name:

GULF CORPORATION

Main Contractor:

HAWKINS INFRASTRUCTURE

Sub Contractor:

ROSS REID CONTRACTORS LTD

Products used:

CORDRAIN

Construction date:

MARCH 2008

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