

Project: Brittan Terrace Shotcrete Drains
Date: February - April 2014
Client: Christchurch City Council
Location: Lyttleton, Christchurch



Megaflo®

Numerous convict built Lyttleton retaining walls failed during the Canterbury 2011 Feb 6.3 magnitude earthquake.

Stronger Christchurch Infrastructure Rebuild Team (SCIRT) designed a soil nail wall to repair the retaining walls in front of 16-18 and 24-30 Brittan Terrace in Lyttleton.

The shotcrete facing required a narrow profile vertical strip drain not suited to round pipe. The Infrastructure Rebuild Lyttleton 1A – Brittan Terrace contractor, Fulton Hogan Civil South installed **Megaflo® 170**.

Megaflo® geocomposite panel drain provides quick effective drainage. With a perforated recycled HDPE core wrapped with **bidim®** non-woven geotextile to prevent soil ingress into the drainage system.

Vertical strips of **Megaflo® 170** at 1.0m centres prevent any build up of water pressure induced on the structure.

Creating weep holes at the base of the drainage pipe was a simple process of the installation of **Megaflo®** geocomposite panel drains behind shotcrete walls is an accepted and recognised application widely used internationally.



Laying of the Megaflo® drainage



Shotcrete walls over the Megaflo®



Megaflo® drainage holes through shotcrete

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