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.