

Project Info



03 / 07 / 2014



CC8™ Bulk Roll



125sqm



Longitudinal layers



Canaa Dos Carajas,
Para, Brazil



Consortio S 11 D
and Vale



CC8™ used to line a ditch
on a steep embankment



Completed ditch



Site before works began



One layer of CC unrolled



Unrolling the CC

In July 2014, Concrete Canvas GCCM* (CC) was used to line a 56m long section of ditch located on a steep embankment next to a road in Canaa Dos Carajas, Para, Brazil. Rainwater was infiltrating and eroding the embankment, risking slip. The installation was conducted as a trial with CC being installed alongside poured concrete.

Installation was carried out by Consortio S 11 D, and the CC was purchased by Construtora Barbosa Mello for Vale S 11 D. Prior to the installation of 8mm thick CC (CC8™) the ditch was excavated to profile and cleared of any loose rubble. A bulk roll of CC8™ was delivered to site and suspended from an excavator with a spreader beam. This was unrolled longitudinally into the ditch in 2 layers, with a 100mm overlap between them. The CC8™ was fixed to the substrate with ground pegs every 2m, and screwed along the overlap every 200mm.

125sqm of CC8™ were installed in 1 hour by 4 people, which was 8 times faster than the poured concrete solution. The trial resulted in two more installations within the Vale network (Vale Phosphate and Vale S 11 D Mining Operations).

*Geosynthetic Cementitious Composite Mat

