

## Project Info



08 / 08 / 2012



CC8™ Bulk Rolls



1125sqm



3 Longitudinal layers



Junction 12, M1,  
Bedfordshire, UK.



Costain and Carillion  
Joint Venture



CC8™ was used to  
line a ditch to prevent  
seepage and control  
water runoff.



Completed installation

In August 2012, Concrete Canvas® GCCM\* (CC) was used to line a 320 linear metre drainage ditch located at the top of a motorway batter. There were issues regarding seepage and a requirement to control water runoff. The site is located at junction 12 of the M1 in Bedfordshire, UK. CC was specified over traditional concrete solutions due to the speed and ease of install and the site accessibility issues that would have made conventional concreting difficult and time consuming.

Installation was carried by Costain and Carillion as a joint venture. The ditch was excavated using plant and V bucket combination, and anchor trenches were created on either side of the ditch. Bulk rolls of 8mm thick CC (CC8™) were delivered to site and unrolled using a spreader beam hung from an excavator. The CC was unrolled in 3 longitudinal layers with an overlap of 100mm. The CC was fixed to the substrate with ground pegs at approximately 2m centres along the crest of the ditch. After hydration, the anchor trench was backfilled to prevent water ingress under the CC8™.

*“The project was a success as the programme, originally **scheduled for completion in 3 weeks, was completed in 5 days.** Having used the product on previous projects, I knew the speed and ease of installation would be of great advantage to us.”*

**Dale Flower BSc (Hons)  
J12 Roadworks Section Engineer, Costain Carillion Joint Venture**

\*Geosynthetic Cementitious Composite Mat





Site prior to works



Graded ditch profile



Deployment of CC via spreader beam



3 layer longitudinal layout



CC pinned in anchor trench which was then backfilled after hydration



Completed installation