

## Project Info



16 / 10 / 17



CC8™ Batched Rolls



425m<sup>2</sup>



Transverse layers



Three Arch Bridge,  
Sherborne, Somerset



Suttle Projects on  
behalf of Osborne



CC8™ was used to line  
a drainage channel used  
to divert surface water  
from fields away from an  
embankment which had  
previously slipped



*The completed channel in Sherborne, Somerset*

In October 2017, Concrete Canvas® GCCM\* (CC) was used to line a channel at the side of the Three Arch Bridge which runs over the rail line in Sherborne, Somerset. The purpose of the channel was to divert surface water runoff from farmers fields away from an embankment that had previously slipped due to saturation.

The works were carried out by Suttle Projects on behalf of Osborne, for Network Rail, with input and Consultation provided by from Arcadis, who specified CC as a robust channel lining solution that would require minimal future maintenance.

In preparation for the installation, all vegetation was removed from the channel, and the ground excavated to a specified channel profile, with anchor trenches pre-dug along both shoulders. The CC material was then delivered to the site in batched rolls of CC8™, allowing for easy transportation on site.

The batched rolls were unrolled transversely across the channel using a spreader beam and excavator via the small access road alongside the channel. The CC was then fixed into the anchor trenches using ground pegs, and overlapping layers of the material were fixed using screws. The process was repeated along the 160m x 2.3m channel, and once installation was complete, the CC was hydrated.

\*Geosynthetic Cementitious Composite Mat





*Drainage channel following excavation*



*The CC was laid transversely and fixed using ground pegs and screws*



*Batched rolls were used due to the channel's close proximity to the rail line*



*Bollards were inserted between the channel and narrow access road*



*The CC edges were captured in anchor trenches and the material hydrated*



*The completed channel*



Completed section of the drainage channel

425m<sup>2</sup> of CC8™ were installed in two stages to suit the site programme – this project was carried out alongside a larger project which was required to reinstate an embankment which failed during a storm event. The channel was installed up to the embankment remediation works, work halted on the channel installation, and once the remediation was completed, the channel was finished. In total, 1 and a half days were spent placing, fixing and securing the CC.

The project has been awarded a Gold Award by Network Rail, showing the contractors commitment to Health and Safety, quality, innovative and efficient working.

***“This was the first time we had used the canvas system, Concrete Canvas supplied an experienced Engineer who was able to give an informative talk to our management team and engineers on the product and how it is best used. They arranged to visit the site to give an informative tool box talk to operatives. The system itself was simple to install, the speed of which we could install the system was surprising. We are very pleased with the finished product and will continue to work with Concrete canvas.”***

Liam Tucker  
Director,  
Suttles