

## Project Info



10/01/2017



CC8™ Bulk Rolls



1,125m²



Transverse layers



Recife, Pernambuco,  
Brazil



Vertical Green



Channel lining on  
an environmentally  
sensitive site in Recife,  
Brazil.

**vivix**  
VIDROS PLANOS



Overview of the installation area

In January 2017, Concrete Canvas® GCCM\* (CC) was used to line a channel in Recife, Pernambuco, Brazil. Due to the site being adjacent to a glass factory, it was considered by the local authorities as an environmentally sensitive area.

There were several other issues with the site with regards to drainage and erosion control, and an overall need for general site recovery was identified, which led to the selection of CC as a channel lining solution instead of alternative methods. The works were carried out by Vertical Green do Brasil Engenharia Naturalistica for Vivix SA, with the CC supplied from SPI Engenharia.

Prior to installation, all existing vegetation from the site was removed as far as the tree line, which, due to environmental restrictions, could not be touched by the team. The drainage of the site was then considered before the CC was laid transversely across the channel, allowing for variations in profile length, with layers overlapping by 100mm in the direction of water flow. The CC was then fixed to the substrate and layers secured at the overlaps. Following installation, a coconut fibre was installed along the slopes surrounding the channel to promote vegetation growth.

1,125m² of CC8™ was installed over a period of ten days by a team of six people, while the project as a whole took three weeks due to the addition of the coconut fibre. A total of nine bulk rolls were required for the channel lining, and some CC was used for slope protection where required.

\*Geosynthetic Cementitious Composite Mat







Site before ground work and installation



Ground preparation work was done by hand and with a digger



CC was laid transversely



An overview of the project's progression



Coconut fibre was fixed to slopes around the channels after installation



The completed installation revisited