

## Project Info



07 / 12 / 14



CC5™ Batched Rolls



100m<sup>2</sup>



Single longitudinal layer



Ilford, London,  
United Kingdom



Network Rail



CC5™ used to provide weed suppression along a 100 linear metre length of parapet at Ilford down electric 7m10-65ch LTDN1 near Ilford Station on the East Anglian Line.



Completed section of lined parapet

In December, 2014, Concrete Canvas was specified on a trial installation to provide weed suppression along a 100 linear metre length of a 2.7m high signalling Station. Commissioned by Network Rail, the installation was completed by Rillscape Ltd, during a Sunday line possession scheduled for separate works.

Access was only possible via steep stairwells. The Canvas was supplied in man portable batched rolls and delivered to the deployment area via rail mounted trolley, along with water supplies, spraying equipment and the ancillaries required for fixing.

The area to be suppressed was first cleared of vegetation and loosely raked flat. Brickwork debris and refuge was removed. Batch rolls of CC were then lifted onto the parapet and unrolled their full length, parallel to the track and butted up against the track side brickwork. Where required, the CC layers Stanley knives to accommodate stanchions and pipework. Adjacent layers of CC were overlapped providing a continuous run of material across the parapet sections. Once positioned, the CC material fixed substrate using 250mm steel ground pegs to secure its position at approximately 2m intervals and through overlaps. The final stage, was hydration of the CC via 35L backpack sprayers.

\*Geosynthetic Cementitious Composite Mat







Ilford Down Electric 7m 10-65ch LTN 1, near Ilford Station



Access to site via track during line possession



2.7m high signalling parapet to be weed suppressed



Vegetation growth along parapet presenting H&S risk



Vegetation growth requiring costly maintenance



Parapet ledge cleared of vegetation and debris





*Delivery of CC batched rolls to site area via rail trolley*



*Fixing of the CC layers at 2m intervals using 250mm ground pegs*



*Cutting and detailing of CC to accommodate stanchions and upstands*



*Hydration of the CC via 35l backpack sprayers*



*Backfilling anchor trench at toe of second section berm*

Concrete Canvas (CC) provides durable weed suppression and has been tested successfully against DD CEN/TS 14416:2005 (Determination of the Resistance to Roots). It has a minimum design life of 50 years within a UK climate and once set, will provide a long lasting, fibre reinforced and water proof concrete layer to effectively suppress weed and vegetation growth. This mitigates the requirement for any future and costly vegetation cutting along critical trackside infrastructure where access is severely limited.