

## Biggin Hill, Bromley

Cathodic Protection – Steel Framed Building

**Client**

Freyssinet Limited

**Contract Value**

£40,000

**Work Commissioned**

November 2014

**Work Completed**

December 2014

An investigation identified a potential inadequacy in the corrosion protection methods of the steelwork at the housing development on Main Road, Biggin Hill, Bromley in Kent.

Freyssinet employed the services of CCSL to undertake the supervision and material supply for the works.

A corrosion inhibitor was installed for the steelwork in voids. CCSL used the VPCI 337 inhibitor from Cortec, which will provide the steelwork with a minimum of two years protection.

For the steelwork forming the frame to the car park area and at roof level embedded in masonry, impressed current cathodic protection was installed. Elgard 100 Anode Mesh Ribbon providing 3.5mA/m was embedded in the mortar joints and a permanent 6V power supply was installed to each of the three blocks in order to 'energise' the system.

For the steelwork supporting hollow core slabs and isolated areas, galvanic cathodic protection - Mapeshield E25 self-adhesive Zinc Layer plated was installed.

The system was successfully commissioned on the 2 December 2013.



- 1 Power supply enclosure
- 2 Ribbon anode
- 3 Zinc layered anode

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