

Case Study - Historic Restoration

📍 C. Hoare & Co, 37 Fleet St, London (2006)



Background

37 Fleet Street (Hoare's Bank) was built in 1829 as the headquarters of C. Hoare & Co who remain the only family owned bank still in existence. Corrosion had effected the building significantly and the façade was cracking due to iron cramps and pins corroding.

Corrosion Protection of Historic Building Façade

An Impressed Current Cathodic Protection (ICCP) system was designed for us by our sister company, Structural Healthcare Ltd. Installation of the ICCP meant we were able to provide long-term protection to wrought iron dog cramps and pins embedded within stone façade to the front elevation of this prestigious bank building. Specialist contractor, PAYE Stonework and Restoration, painstakingly connected each metal component identified by survey to ensure both electrical continuity of the wrought iron and also discontinuity of the anode and ironwork cathode.



This project was awarded the ICRI's 2007 Award of Excellence!



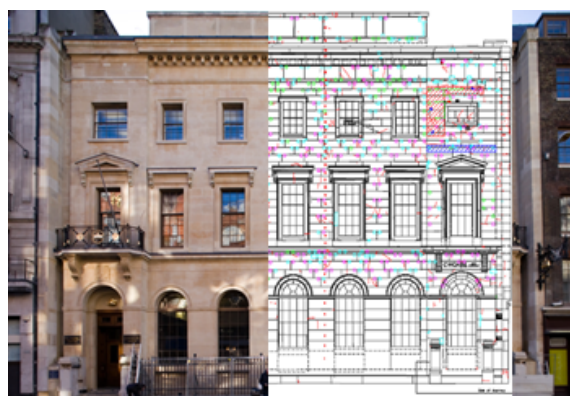
Futureproofing Valuable Assets

Corrosion had established in over 500 iron components causing cracking to the stone blockwork. Once electrical continuity had been assured within each component to the next component these were grouped in zones for each level of the building for control purposes. Termination of the anode and cathode dc circuitry with embedded monitoring devices within each of 3 zonal enclosures allowed remote data acquisition and electronic control of the protection systems online.

Now the owner has access to performance constantly and consistently to provide comfort that the asset is protected for its future. It has been operating successfully for 14 years and counting!



Discrete ICCP anodes and monitoring devices were installed within the bed joints intersecting stone blocks and small "Dutchman" repairs to maintain an aesthetic finish.



Front façade after ICCP installed and showing pre-install wrought iron component location survey that graded corrosion risk by colour-coded positioning.

