

# Parker Street, Liverpool, UK

**Country:** United Kingdom

**Project Timescale:** Oct 2014 - Jan 2015

**Structure:** Steel Frame Building on Parker Street, Liverpool

**CPT Treatment Applied:**

DuoGuard™ Galvanic Anode System

**CPT Products used**

- DuoGuard™ 500
- DuoCrete SD Mortar



The Parker Street building is a six floor steel framed structure in the centre of Liverpool. The building was suffering from cracking and displacement of the brickwork cladding to the steel frame. In addition leakage through the degraded waterproofing and drainage had led to water damage. The upper section of the roof was refurbished and individual steel I beams suffering corrosion damage were replaced.

The rear brickwork face of the building was exhibiting cracks and some bulging. Exposure of the steel frame indicated corrosion of I sections had occurred, leading to formation of expansive corrosion products which in turn was applying disruptive pressure to the brickwork.



In order to stop the ongoing corrosion, a Hybrid corrosion protection system was installed. Initially the bulging brickwork was removed to expose some of the steel I beams. The DuoGuard Hybrid anodes were installed into the mortar surrounding the I beams so that protection current could be delivered to the steel to counter the corrosion process. A series of discrete enclosures allow access to the installed system, from inside the building, to check system operation and monitor steel corrosion rate. The installed system runs without the need for permanent power and thus maintenance, and leaves the client with a long term protection solution.



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