



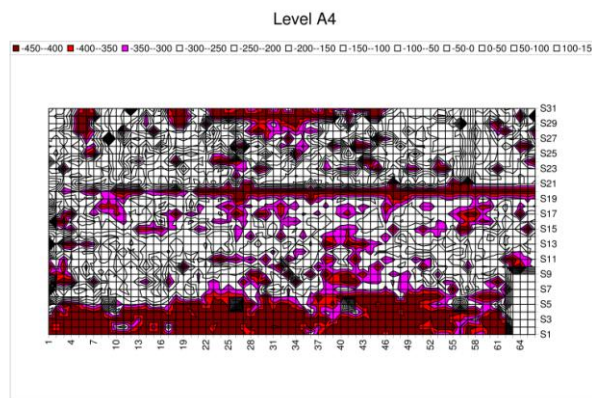
*Contract value to the Specialist contractor was £1.2 million with the corrosion management sub-contract value of £204k.*

*Works were implemented over 2008/9.*

*C-Probe has managed the system for Newport City Council using AiMS for 7 years.*

Park Square multi-storey car park is situated in Newport, South Wales as a 3-stack 21-split level parking facility managed by Newport City Council.

In 2008 C-Probe designed, supplied specialist materials, tested and commissioned the corrosion management scheme installed to protect the structure for a service life extension of 25+ years.



The entire structure was surveyed to decide the most cost-effective corrosion mitigation method and materials chosen accordingly. This evolved different strategies for different structural elements with protection provided for the deck slabs, transverse and longitudinal beams, ramps, wing walls, internal faces of parapet walls, columns and cantilever sections.

Areas of chloride contamination and high risk used ICCP ribbon anode systems within concrete chases for selected decks with galvanic protection to columns, wing walls and selected beams with surface-applied corrosion inhibitors used to lower risk surfaces where delaying the onset of corrosion was the determining factor.

All systems were monitored for performance using the C-Probe Achilles Suite of Structural Healthcare systems in a network that is remotely managed to limit the need to revisit site. Reports are generated on the AiMS facility for interrogation online by approved parties.

