**Majestic Apartment Building**

**Country:** Australia

**Timescale:** Oct—Nov 2010

**Structure:** Steel Frame Apartment Building in Melbourne

**CPT Treatment used:**
DuoGuard™ Hybrid Anode System™

The Majestic apartment building has a street façade circa 1939 being constructed of steel columns and beams enclosed in brick. The building was exhibiting cracking of the street facing bricks which were in danger of falling.

**Problem**

Investigation revealed expansive corrosion products which had led to pressure being exerted on the facing bricks and subsequent cracking.

**Solution Developed**

The DuoGuard Hybrid anode system was installed. The anodes were located from the front into the mortar infill around the steel beams. Reference probes were installed to monitor the performance.

**Benefits**

The steel corrosion was stopped and the Hybrid anode system left in galvanic mode to continue to offer protection over the long term. The system can be re-accessed at any point in the future. This system provides the client with a long-term corrosion protection solution for the building.

**CPT Products Used:**
- DuoGuard™ Range
- DuoCrete SD Mortar
- MN15 Ref. electrodes

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