

## ADVANCED CORROSION QUANTIFICATION IN BALCONY INSPECTIONS

Inspection of precast concrete balcony slabs using iCAMP technology, particularly assessing the condition of prestressing strands within the slabs.

### CHALLENGES

Key challenges involved accurately assessing the condition of internal prestressing strands through non-destructive methods, despite the presence of a concrete topping layer.

### SOLUTIONS

The iCAMP scanning tool was used to evaluate the magnetic properties of the prestressing strands directly through the concrete topping layer, offering a non-intrusive inspection method.

## RESULTS

The iCAMP technology enabled efficient inspection of each balcony in less than one hour, quantifying section loss in the strands due to corrosion and correlating well with visual observations.

## BENEFITS

Benefits of using iCAMP included quick and effective quantitative results for steel reinforcement under cover, enhanced safety, time-saving, and cost-effective compared to traditional inspection methods.

