



CBS Arena, Structural Surveys

Overview

The Coventry Building Society Arena is a major sports and entertainment venue featuring a 32,000-seat stadium, exhibition halls, a hotel, and a casino. Opened in 2005, it is home to Coventry City Football Club and hosts regular football matches, concerts, and other events. Its infrastructure includes a pedestrian footbridge and underpass for easy access.

Case Study

Client: Coventry Building Society Arena

Design Services Provided

- Annual structural inspections of all areas in accordance with the Safety at Sports Grounds Act 1975 (Green Guide).
- Reporting on structural defects and issues as they are discovered.
- Provision of recommendations on repair specifications and maintenance
- Structural advice and design services for modifications to the arena structure
- Checking of temporary structures for exhibitions and concerts





Project Solutions

JNP Group provides ongoing structural support for the Coventry Building Society Arena, offering technical expertise since its opening in 2005. Our services include annual safety inspections, detailed rolling inspections in line with Green Guide requirements and structural safety evaluations.

We provide guidance on damaged components, durability, and maintenance, along with swift responses to urgent safety concerns, with a typical response time of 40 minutes. Our team also prepares defect reports, repair specifications, and maintenance plans for steel, concrete, and masonry.

Inspections are led by experienced engineers, including Chartered Structural Engineers or supervised graduate engineers with 5+ years of experience. We pride ourselves on providing a consistent team that can navigate around the facility, knowing it inside out.

We assist with new designs, upgrades, and design solutions for unexpected issues, collaborating with other disciplines (mechanical, electrical, and civil) along with the facilities management team to ensure smooth coordination. We also review tender submissions and provide recommendations throughout the construction phase.

Case Study

Project Challenges

- Ongoing maintenance of a large, complex structure with multiple facilities.
- Ensuring structural safety during high-impact events like concerts and exhibitions, through close collaboration with the stage installation teams.
- Assisting the facility managers on prioritising the remediation of defects for various materials (steel, concrete, masonry) due to heavy use, collisions and weather.
- Addressing urgent structural concerns quickly, especially during or after events.
- Coordinating across multiple engineering disciplines (structural, civil, mechanical, electrical).

Project Solutions

- Conducting annual structural inspections and rolling reviews of 10% of the facility each year.
- Responding to urgent safety concerns with quick action, achieving response times as fast as 40 minutes.
- Providing expert advice on repairs, maintenance, and durability for steel, concrete, and masonry elements.
- Collaborating with other disciplines and the facilities management team for efficient coordination of repairs and upgrades.
- Checking temporary structures for events to ensure they meet safety standards and do not affect the Arena's stability.

Summary

Through JNP Group's ongoing support contract, we have a good relationship with the client and extensive knowledge of the building, enabling us to provide detailed reports and design solutions for any arising issues found during inspections.



Case Study

JNP Group Project Team

Project Manager:

Gareth Stephenson

Project Team:

David Garner

