



FIFA Stadium, Sports City

Basra, Iraq

Case Study

This spectacular 65,000-seat, combined FIFA and Olympic event compliant stadium in the City of Basra, Southern Iraq, is built on geology that dictated the need for substantial seismic movement accommodation, including the necessary stadium bowl expansion joints that had to be designed up to 400mm wide.

The Project Design team had good previous experience on major stadium projects in the USA using Emseal jointing systems for similar demanding situations, such as the stadium bowls and concourses, so they specified the Emseal seismic joint system (SJS) for the FIFA stadium in Basra. Each custom assembly was produced in Toronto to the actual measured field dimensions in order to facilitate site installation according to a detailed plan. The site supervisor training was held at the Emseal HQ and global Training Centre in Boston, USA, using a full-sized mock-up of the tread-riser-tread assemblies of those in Basra.



The Emseal SJS jointing system ensures continuity of the watertight seal throughout these joints, including through all the changes in plane and direction, whilst safely accommodating the high movement capacity of the joints, and importantly without transferring any damaging stress into the structure. The system is completely free of any additional screws, anchors or other noisy mechanical connections, so these also do not present any slip or trip hazards. The Emseal SJS system safely accommodates the high point loads of small-wheeled fork lifts and stacker truck, as used by most stadium maintenance crews and food / drink vendors with their wagons, plus the millions of fan footfalls of course.

Client:

Basra Sports City, Iraq

Structural Engineering:

Thornton Tomasetti

Products Used:

Emseal SJS System

Contact:

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