

Project Brief

Michie Stadium Column and Girder Strengthening



West Point, New York, USA
November 2002



Provide additional connection strength to the existing stadium seating on the West Stands. Seat to seat, seat to girder, and column to girder connections strengthened.

Inadequate connections in the West Stands identified by the consultant required an external system that could be used on thin sections of concrete.

Typical connection details for the seat to seat and seat to girder connections were completed using the Tyfo® BC composite system. Approximately 4,400 connections of this type were specified. This connection was first tested in 1996, and then re-tested by the Army Corps of Engineers for this particular application using Tyfo® FibrAnchors™. The Army Corps tested for structural performance, durability and temperature effects on the connection system.

The connection from the girders to the columns used a special anchorage system that was inserted into the core concrete of the column, and then splayed onto the face of the beam to provide a direct tension connection.

The innovative composite systems used to provide additional connection strength provided a non-corrosive, low impact, and effective means to meet the required connection strengths.

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