

CETCO vapor mitigation system chosen as protection for high-profile sports stadium

A sports team chose an idle brownfield location in Harrison, NJ as the home for their new stadium. To mitigate potential vapor intrusion concerns, Louis Berger Group specified the LIQUID BOOT® gas vapor barrier system and GEOVENT™ sub slab depressurization system as a part of their overall remedial design.



PROJECT DETAILS

New York Red Bull Arena
Engineer: Louis Berger Group
General Contractor:
Roberts Construction Group
Certified Installer: EAI, Inc.

LOCATION

Harrison, NJ

PRODUCTS USED

LIQUID BOOT® 500
Gas Vapor Mitigation System
GEOVENT™ Gas Venting System

The top left image shows the installation of the GEOVENT™ sub slab venting system. The top right image shows the installed spray-applied gas vapor membrane attaching to the piles themselves and conforming to the haunch. The large image shows how the spray-application allows for quick and air-tight seal around all penetrations and irregularities, saving considerable time and money.

CHALLENGE:

The challenge was to keep with the construction schedule and perform the installation during winter months. Tarps and heaters were used to contain heat within the steel structure, keeping the installation temperature at the optimum level.

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SOLUTION:

As an approved LIQUID BOOT® applicator, EAI, Inc. installed the GEOVENT™ sub slab venting directly into the stone sub-grade, connecting it to vent risers, which were run up the outside of the stadium. EAI, Inc. also installed 80,000 square feet of LIQUID BOOT® gas vapor barrier to the underslab of the stadium bleachers, sealing directly onto the timber piles and around haunched areas of the foundation. After installation, EAI performed rigorous QA/QC procedures, including a smoke test which pumped smoke underneath the entire membrane, in order to observe for any pinhole leaks. Once any needed repairs were made to the membrane, ensuring a vapor tight seal, the membrane was then protected with ULTRASHIELD™ G-1000 protection course.

RESULT:

CETCO products installed by CETCO trained and certified installers provided proven protection against potential vapor intrusion.

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