

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

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



Left to right: installation of the GEOVENT™ sub slab venting system; spray-application allows for quick and air-tight seal around all penetrations and irregularities to save considerable time; installed spray-applied vapor membrane attaches to the piles themselves and conforms to the haunch.

PROJECT DETAILS

New York Red Bull Arena

Engineer: Louis Berger Group

General Contractor: Roberts Construction Group

Certified Installer: EAI, Inc.

LOCATION

Harrison, New Jersey, USA

PRODUCTS USED

LIQUID BOOT® 500 Spray-Applied Vapor Barrier

GEOVENT™ Gas Venting System

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.

SOLUTION:

As an approved LIQUID BOOT® vapor barrier 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® 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.

cetco@mineralstech.com | cetco.com | 800.527.9948