



Elementary School Air Barrier

SERVICES

- Roofing & Exterior Wall Advising
- Building Enclosure Testing and Analysis
- Building Enclosure Commissioning (BECx)
- Large Building Air Barrier Performance Testing/ Certification
- Peer Review and Design Service
- Forensic Evaluations
- Fenestration, Curtain Wall and Facade Performance Testing (Air and Water)
- Quality Assurance Construction Observation and Reporting
- Non-Destructive Evaluation and Analysis (Infrared Thermography)
- Project Management/Contract Administration

## Service Overview

Nova has experienced building science professionals who advise for existing facilities and new construction projects. For existing facilities, Nova provides visual assessments, field testing, moisture surveys, design service, and project oversight. On new construction projects, Nova contributes trained staff to document installation, complete performance testing, and assist with project close-out. Nova can also offer peer review of new construction design services. Nova's goal is to work with project team members, not only to identify potential issues or deficiencies but to provide solutions. By doing so, we strive to develop economical solutions and add value to each project. Our services give owners and contractors the confidence that the air barrier systems will readily achieve performance test and installation requirements. Nova's comprehensive approach helps to avoid extensive air-leakage investigations and costly repairs.

## Experience

Nova's experienced advisors provide clients with the design consultation, testing, and installation oversight needed to ensure air barriers, fenestration, curtain walls, and facades are installed and perform as intended. Requirements for performance testing vary, and Nova can develop testing protocols to meet specific project and budget mandates. We also have experience troubleshooting existing systems and providing corrective solutions.



### DOUG KNIGHT

#### Equity Group Account Manager

Mr. Knight is an Account Manager for the Equity Group. He has over 25 years of experience in the consulting engineering business, with a focus in environmental services. As a project professional, he has been involved with the identification, quantification, and mitigation of environmental and facility defects on a wide variety of commercial, residential, and raw property projects. Mr. Knight has experience in over 1,000 environmental and facility projects, including Phase I and II ESAs, hazardous substances (asbestos,

lead, and radon), remedial investigation/delineations, PCAs, and building envelope commissioning. Doug earned a Bachelor of Science in Chemistry from Centre College in Kentucky and is based out of Columbus, Ohio.

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## CASE STUDY

### Summary

Nova recently provided on-site air barrier installation quality assurance observation and testing services for a new elementary school in Tonganoxie, Kansas. The two-story, approximately 120,000-square-foot structure had a fluid-applied air barrier assembly applied to sheathing prior to installation of the exterior brick veneer and composite metal panel.

### Highlights

Nova completed multiple site visits during construction to document the installation of the air barrier system, window flashing, and exterior sheathing. Adhesion and thickness tests were completed by certified personnel. Nova reviewed the plans and specification prior to the start of work and recommended revisions to ensure the air barrier was continuous and would perform as intended. By working closely with the project architect, the general contractor, and the air barrier sub-contractor, Nova helped ensure that a quality air barrier system free of defects was installed.