



# BUILDING SCIENCE & FACILITY INSPECTION / TESTING

REALESTATEDUEDILIGENCE HEALTHANDSAFETY ENVIRONMENTAL COMPLIANCE ENERGYEFFICIENCY



SERVICES

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

## Service Overview

Nova has experienced professionals that provide Building Science consulting for existing facilities and new construction projects. For existing facilities, we can provide visual assessments, field testing, moisture surveys, design service and project oversight. On new construction projects, Nova contributes trained staff to monitor installation, complete performance testing and assist with project close-out. Nova can also offer peer review services. Our 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 consultants provide clients with the design consultation and 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.



**JUSTIN LIA, PE, LEED AP**  
**Vice President, Equity Group Manager**

Mr. Lia has 30 years of experience in the industry. With experience as a contractor, construction inspector, design engineer, forensic engineer and due diligence advisor, he leverages a deep technical skill set to serve equity and corporate clients with demanding real estate needs. His experience with CRE transactions ranges from the smallest jobs to single buildings valued in excess of \$1B, and portfolios valued in excess of \$3.5B. Complex, transactional due diligence is what he does best.

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Elementary School Air Barrier

## 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.