



MATTHEW RIDGWAY, P.E. DIRECTOR , NORTHEAST REGION

STARTED WITH INTERTEK: 2015/ YEARS IN INDUSTRY: 19

Mr. Ridgway is a licensed Architectural Engineer specializing in the assessment, design, analysis and remediation of building enclosure systems on historic and modern buildings, managing projects for both public and private clients. Matt is well-versed in the contemporary analysis and issues of building enclosure design, serviceability, materials selection and enclosure commissioning and often moderates discussions between stakeholders, consultants and local code/historic authorities. Mr. Ridgway's investigative and forensic work has focused on water intrusion, building instrumentation and condensation analysis for both modern and historic roofing, waterproofing, fenestration and opaque walls as well as manufacturing defects of prefabricated systems. Mr. Ridgway's experience in commercial and institutional project planning and repair prioritization inform his professional practice. Matt is based in Philadelphia, Pennsylvania.

Summary of Experience

Mr. Ridgway is the Northeast Director for Intertek's Building and Construction division. Duties include management of the Northeast Region and technical oversight of testing, labs, inspection, and consulting work. Mr. Ridgway specializes in Building Enclosure Commissioning (BECx), water intrusion investigation and remediation, consulting work on a variety of historic and modern enclosures, assessments and programming, and construction QA/QC.; including leading multi-disciplinary teams. Mr. Ridgway has been a guest speaker and guest lecturer at local Universities, the National AIA Convention, ASTM Symposia, and local RCI (IIBEC), NCC and BEC chapters.

Representative Projects

Historic Restoration

- Bryn Mawr College: Bryn Mawr, PA—Library Envelope Renewal Program - Complete exterior renewal program for a National Historic Landmark library and education space. The project included a detailed assessment, analysis and comprehensive exterior restoration program including all roofing, masonry facade repairs, and fenestration refurbishment/replacement.
- Vassar College: Poughkeepsie, NY—Chicago Hall Feasibility Study and High Priority Repairs The project consisted of a feasibility study and selective repair program to an architecturally significant precast screen wall as well as roofing replacement and energy code compliance over a thin shell concrete barrel vault roof. The project included significant interface between state energy and local AHU.
- Harvard University: Cambridge, MA—Dormitory Renewal Projects (Stone Hall, McKinlock Hall, Dunster House, Winthrop House) Projects consisted of complete renewal of dormitory campuses consisting of historic masonry and terra cotta structures, wood framed buildings, and new mid-rise construction. Matt worked as a consulting engineer responsible for the investigation, restoration/remediation and construction administration of facade, roofing, chimneys, windows and waterproofing systems.
- Harvard University: Cambridge, MA *Littauer* Center Facade Restoration The project consisted of the assessment, design, restoration and construction administration for a renewal of the facade masonry.

Building Enclosure Commissioning

- Maine Army and National Guard (MEARNG), Joint Forces Headquarters - Augusta, ME: New construction of a 100,000GSF headquarters.
- Penn Medicine, Chester County Hospital Expansion - West Chester, PA: A 250,000 GSF Emergency Department, inpatient and medical office expansion of the existing hospital.
- The Children's Hospital of Philadelphia – Philadelphia, PA: New construction of a 480,000 GSF 22-story Class A Office Tower along the Schuylkill River in downtown Philadelphia. The project featured extensive plaza waterproofing and tie-ins to adjacent bridges and a unique unitized curtain wall.
- Hackensack University Medical Center Second Street Pavilion —Hackensack, New Jersey, New construction of a 530,000 sf pavilion (438,000 sf usable). The project is in accordance with LEED v4 for Healthcare and we provided BECx services and functional performance testing.

Education

B.S. Dual Civil/Arch. Engineering
Drexel University
Philadelphia, Pennsylvania

Professional Licensing/ Certifications

Professional Engineer - RI, PA, NY, NJ, ME, MD, DE, MA
USBGC LEED Green Associate (LEED GA)
Certified Level I Thermographer
SPRAT Level I

Practice Areas

Assessment and Remediation
Enclosure Commissioning
Design Peer Review
Historic Restoration
Building Systems Integration
Building Instrumentation
Diagnostic /Forensic Evaluations

Representative Publications

"In The Skin" - Construction Today
"Acoustical Effects of Modern Building Envelope Advancements: You can Hear the Difference!" - Inter-Noise 2018
"The Four Orders of Failure in Building Skin Design and Construction" - IIBEC Symposium on Building Envelope Construction.
"Unintended Consequences: A Review of Critical Details, Serviceability and Durability of Modern High Performance Facades" - ASTM Symposium on Science and Physics of Building Performance
"Barrier Breakthroughs Achieving Airtightness in Modern Construction" - Construction Specifier

Professional Associations

ASTM DVGBC
IIBEC BEC

