



PERSONNEL QUALIFICATIONS

Sean Killarney | Associate II



EDUCATION

- University of Illinois at Urbana-Champaign
 - Bachelor of Science, Architectural Studies, 2015
- Illinois Institute of Technology
 - Master of Engineering, Architectural Engineering, 2018

PRACTICE AREAS

- Building Enclosure Consulting
- Peer Review
- Building Science
- Hygrothermal Computer Modeling
- Repair and Rehabilitation Design
- Building Enclosure Commissioning
- Historic Preservation

PROFESSIONAL AFFILIATIONS

- American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE)
- Building Enclosure Council Chicago

CONTACT

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EXPERIENCE

Since joining WJE in early 2019, Sean Killarney has contributed to building enclosure condition assessments, on-site testing, repair design, design reviews, hygrothermal modeling with THERM and WUFI® software programs, and Building Enclosure Commissioning (BECx). He has experience evaluating and drafting repair documents for brick, terra cotta, stone, and glass facades. Mr. Killarney has helped restore historic buildings, worked with building owners to solve ongoing building science issues, and consulted on design and construction phase work for new construction.

Prior to joining WJE, Mr. Killarney began his building enclosure career at db|HMS in Chicago, Illinois, as part of their BECx group. There, he assisted in the production of owner project requirement documentation, participated in design reviews, and performed construction phase observations. As a graduate student at the Illinois Institute of Technology, he studied both enclosures and building systems, conducted an in-depth facade assessment, performed whole-building energy modeling, and gained experience with enclosure-focused modeling software such as THERM and WUFI®.

REPRESENTATIVE PROJECTS

Building Enclosure Consulting and Peer Review

- Main Street Village - Granger, IN: Design review and construction observation for reconstruction of multifamily housing building
- Savannah Gardens Complex - Savannah, GA: Independent design review for single and multifamily housing complex
- Vista Tower - Chicago, IL: Review of installation and testing of unitized window wall for new ninety-five-story condominium and hotel building

Building Science

- Eagleton Federal Courthouse - St. Louis, MO: Stack effect investigation and thermal modeling of various window and wall assemblies
- Student Housing and Apartments - Louisville, KY: Investigation of roof failure and thermal modeling of unvented attic space

Hygrothermal Computer Modeling

- Children's Hospital of Wisconsin - Wauwatosa: THERM study of curtain wall details, including shadowbox condition
- Iowa State University, Student Innovation Center - Ames: THERM study of unconditioned exterior soffit
- P-714 Barracks Building - Naval Station Great Lakes, IL: THERM study of window placement in plane of wall

Repair and Rehabilitation Design

- Clarkson College - Omaha, NE: Construction documents for re-clad of vinyl siding on student residence hall
- Eugenie Terrace - Chicago, IL: Construction documents for partial reconstruction and repair of brick masonry patio walls
- Virginia Polytechnic Institute and State University - Blacksburg: Construction documents for repairs for stone masonry efflorescence and water leakage

Building Enclosure Commissioning

- Rush University Medical Center, New Ambulatory Building - Chicago, IL: BECx for new 50,000-square-foot outpatient facility on existing medical campus

Historic Preservation

- Commonwealth Plaza - Chicago, IL: Investigation and construction documents for repair of exterior soffit ceiling on Mies van der Rohe-designed condominium building
- Macy's on State Street - Chicago, IL: Condition assessment of existing terra cotta, granite, and brick masonry facade and review of wood window repairs for historic department store built in early 1900s
- Northbrook Public Library - Northbrook, IL: Coating evaluation for steel- and glass-clad library built in 1969