



PERSONNEL QUALIFICATIONS

Nathan K. Gamber | Associate Principal



EDUCATION

- Ohio University
 - Bachelor of Science, Civil Engineering, 2001
 - Master of Science, Civil Engineering, 2004

PRACTICE AREAS

- Peer Review
- Water/Air Leakage Assessment
- Facade Assessment
- Repair and Rehabilitation
- Peer Review and Commissioning
- Building Enclosure Commissioning
- Windows/Curtain Walls/Skylights
- Building Science
- Roofing and Waterproofing

REGISTRATIONS

- Professional Engineer in OH

PROFESSIONAL AFFILIATIONS

- Building Enclosure Council - Cleveland Chapter, co-chair

CONTACT

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EXPERIENCE

Nathan Gamber has extensive experience in building enclosure condition assessments, design peer reviews, field testing, investigations of new and existing structures, and repair design for various building types to address moisture-related deterioration of above- and below-grade building enclosure materials, components, and systems. Since joining WJE in 2005, he has also been actively involved in construction observation of numerous high-rise multifamily residential buildings, medical facilities, and museums, including preconstruction mock-up performance testing, design refinement, and field quality assurance services. Mr. Gamber has knowledge of a wide range of building enclosure components and systems that comprise curtain walls and other aluminum window cladding components, skylights, metal wall panels, brick masonry, air and vapor barriers, and roofing systems. He has also contributed to the investigation of several moisture-related roof system failures and to the investigation and design of a new, multi-ply, modified bitumen roof assembly for a high-rise structure.

REPRESENTATIVE PROJECTS

Facade Assessment

- Ritz-Carlton Hotel - Cleveland, OH: Facade condition assessment and water infiltration testing of precast panels and fenestration systems
- Ohio State University - Columbus: Facade condition assessment and water infiltration testing of brick masonry, cavity flashings, single-ply roofing, and fenestration systems
- 500 East Main Street - Columbus, OH: Evaluation of water infiltration at fenestration and masonry systems
- Decker Engineering Building - Corning, NY: Condition assessment and water infiltration testing of custom skylight system
- UPMC Sports Performance Complex - Pittsburgh, PA: Water penetration testing of aluminum curtain wall and polycarbonate glazing systems
- Ohio State University, Veterinary Medicine Academic Building - Columbus: Evaluation of cast stone distress, investigation of water leakage into below-grade interior space and through aluminum curtain walls and brick masonry, and building enclosure air leakage testing

Repair and Rehabilitation

- Cleveland Museum of Art - OH: Condensation investigation of exterior gallery walls and investigation of rainwater penetration into below-grade interior space, leading to development of repair contract documents for plaza waterproofing systems
- The Carlyle on the Lake - Lakewood, OH: Building-wide fenestration assessment, water infiltration testing, development of window replacement contract documents, field quality assurance observations, and field testing of repairs
- Beggs Building - Columbus, OH: Investigation of rainwater penetration through sloped glazing and single-ply roofing systems, evaluation of distress to stone aggregate panel and terra cotta cladding, and development of facade reclad contract documents
- Mylan Building - Canonsburg, PA: Investigation of rainwater penetration, construction observation, and quality assurance field testing of brick masonry cavity flashing repairs at window heads
- Lubrizol Headquarters - Wickliffe, OH: Evaluation of water leakage through curtain walls and development of curtain wall rehabilitation contract documents

Peer Review and Commissioning

- Corning Museum of Glass - Corning, NY: Construction observation and quality assurance field testing of building envelope, including custom glass rain screen and skylight systems, air and vapor barriers, curtain walls, and roofing systems
- UPMC East - Monroeville, PA: Peer review, construction observation, and quality assurance field testing of aluminum curtain wall, metal wall panel, brick masonry, and roofing systems, including interface detailing of cladding components
- Dayton Children's Hospital - Dayton, OH: Peer review, construction observation, roof systems value engineering support, and quality assurance field testing of aluminum curtain wall, skylights, brick masonry, air and vapor barrier, and roofing systems, including interface detailing of cladding components
- Albright Knox Art Gallery - Buffalo, NY: Peer review of aluminum curtain wall, marble cladding, and waterproofing systems