PERSONNEL QUALIFICATIONS

Michael C. Duncan | Associate Principal

EDUCATION

- Colorado School of Mines
  - Bachelor of Science, Civil Engineering, 2000

PRACTICE AREAS

- Facade Assessment
- Peer Review
- Glass Breakage
- Water/Air Leakage Assessment
- Building Enclosure Testing
- Windows and Curtain Walls

REGISTRATIONS

- Professional Engineer in CO

PROFESSIONAL AFFILIATIONS

- American Architectural Manufacturers Association
- Building Enclosure Council - Colorado

CONTACT

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EXPERIENCE

Michael Duncan has expertise in building enclosures with an emphasis on the evaluation and testing of windows, curtain walls, storefront systems, and the interaction of these systems with surrounding facade elements. He brings a practical, hands-on approach to the evaluation of building components and assemblies. Mr. Duncan's projects also include wood and aluminum window systems, masonry facade systems, and various other cladding types. These projects have ranged from investigations of aging facades to work on new construction projects. He has participated in numerous facade investigations where he has performed water penetration testing and design peer reviews. Mr. Duncan has also presented at seminars and meetings on facade-related topics, including typical window performance and detailing problems.

Prior to joining WJE, Mr. Duncan spent several years working for his family-owned construction company, where he obtained an overall understanding of construction practices and procedures.

REPRESENTATIVE PROJECTS

Facade Assessment

- University of Colorado Anschutz Medical Campus Research Complex I and II - Aurora: Curtain wall investigation and repair recommendations/design
- 777 Grant Street - Denver, CO: Assessment of curtain wall detailing and anchorage
- 1700 Broadway - Denver, CO: Due diligence facade evaluation and repair recommendations

Peer Review

- Union Denver (17W) - Denver, CO: Multiphase third-party peer review of building enclosure, construction phase observations, and quality assurance testing
- 16 Chestnut - Denver, CO: Multiphase third-party peer review of roofing and waterproofing systems, construction phase observations, and curtain wall quality assurance testing
- St. Anthony Hospital Campuses - Lakewood and Westminster, CO: Third-party peer review of building enclosure, construction phase observations, and quality assurance testing
- Vail Valley Medical Center - Vail, CO: Third-party peer review of building enclosure and construction phase observations

Glass Breakage

- Maven Hotel - Denver, CO: Investigation of fractured glass guardrails
- Highland Place II - Centennial, CO: Investigation of glass breakage following building enclosure repairs
- State Farm Insurance - Greeley, CO: Investigation of glass breakage and damage due to tornado
- Commercial Office Building - Lakewood, CO: Investigation of thermal-induced breakage of glass

Water/Air Leakage Assessment

- Colorado School of Mines, Student Center - Golden, CO: Terrace waterproofing, curtain wall leakage investigation, and repair recommendations
- Billings Clinic - Billings, MT: Investigation of leakage through building enclosure and repair recommendations
- Level 3 Communications, Inc. - Broomfield, CO: Investigation of leakage of storefront and precast concrete facade

Building Enclosure Testing

- 250 Columbine - Cherry Creek, CO: Quality assurance testing during construction
- CH2MHill - Denver, CO: Investigative testing of curtain wall to identify sources of leakage; repair recommendations
- Covenant Medical Office Building - Lubbock, TX: Investigative testing of stucco and ribbon windows to identify sources of water leakage; repair recommendations