



EDUCATION

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

PRACTICE AREAS

- Facade Assessment
- Peer Review
- Glass Breakage Assessment
- Leakage Investigation
- Load Testing
- Water Penetration Testing
- Windows and Curtain Wall Systems

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 the evaluation and testing of windows, curtain walls, and 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

- 1999 Broadway - Denver, CO: Facade inspection and evaluation
- Denver Club Building - CO: Facade evaluation and repair recommendations
- Park Hyatt Beaver Creek Resort and Spa - Avon, CO: Facade evaluation and repair design

Peer Review

- Aviator Lofts - Denver, CO: Review of exterior facade and window interface for new development
- NorthCreek - Cherry Creek, CO: Exterior envelope review for new mixed-use project
- Platte Valley Medical Center - Brighton, CO: Exterior envelope review of new hospital

Glass Breakage Assessment

- Private Residence - Aspen, CO: Investigation of thermal breakage of glass
- Private Residence - Snowmass, CO: Investigation of breakage of glass due to installation
- State Farm Insurance - Greeley, Colorado: Investigation of glass breakage and damage due to tornado

Leakage Investigation

- City of Thornton - CO: Curtain wall and storefront leakage investigation
- Crescent VII - Greenwood Village, CO: Investigation of leakage of storefront and precast concrete facade
- Level 3 Communications, Inc. - Broomfield, CO: Investigation of leakage of storefront and precast concrete facade

Load Testing

- High-Power Electrical Line - Jamestown, CO: Load testing of components following fire
- Isbell Lofts - Denver, CO: Load testing of historic building for renovation

Water Penetration Testing

- 1600 Glenarm Place - Denver, CO: Water penetration testing on newly-installed curtain wall
- Cherry Creek North - Denver, CO: Water penetration testing on installed storefront systems
- ONE Riverfront - Denver, CO: Air and water penetration testing on clad windows