



Brian D. Erickson, M.S., P.E.

Branch Manager

Forensic Engineer

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EDUCATION

- University of Colorado – Boulder, Colorado
M.S. Civil Engineering, 2008
Building Systems Program
- Iowa State University – Ames, Iowa
B.S. Industrial Engineering, 2001

REGISTRATION & CERTIFICATIONS

- Professional Engineer in Colorado (43227), Minnesota (47798), Wisconsin (40667), North Dakota (6488), South Dakota (10103), Iowa (19862), and Texas (105699)

AREAS OF EXPERTISE

- Large Building Air Barrier Testing & Diagnostics
- Building Sciences & Hygrothermal Analysis
- Below-Grade & Plaza Deck Waterproofing
- Exterior Claddings, Fenestrations, & Curtain Walls
- Low-Slope & Steep-Slope Roofing Systems
- Rehabilitation Design & Project Management
- Ventilation & Humidity Control
- Façade Performance Testing
- Energy Analysis of Building Enclosures

BIOGRAPHY

Brian's expertise includes building enclosure systems, waterproofing, air and moisture control, and building sciences.

He has consulted on a wide-array of projects across the nation, with services including technical design reviews, specialized building performance testing, forensic evaluations of failed enclosure and waterproofing systems, repair design, and project management. His project experience ranges from medical training facilities to 53-story high rise curtain wall systems.

Brian served as a primary technical advisor to the U.S. Army Corps of Engineers (USACE) in the development of the USACE Air Leakage Test Protocol and continues to serve as a consultant to the Corps on issues of air barrier testing, certification of testing agencies, and training of air barrier test witnesses.

Mr. Erickson presents nationally on air barriers, roofing, waterproofing, and moisture control to the design and construction industry. He recently co-authored and published a paper on ventilation and fluid dynamics in the academic journal, *International Journal of Building Simulation*, which was voted "Best Paper" of 2008 by the editorial board.

REPRESENTATIVE PROJECTS

Fort Sam Houston BRAC Dorms – San Antonio, Texas

Large Building Air Barrier Testing and Diagnostic Evaluation

- Air barrier testing of a 329,121-square foot, 4-story dormitory building per US Army Corps of Engineers protocol.
- Coordinated and analyzed over 14 pressure differential measurements and 99,600 CFM worth of portable fan capacity.
- Infrared and smoke generation diagnostic evaluations and client consultation in identifying areas of un-intended air leakage.

Mountain View Residences - Vail, Colorado

New Construction Building Enclosure Consulting

- Peer review of architectural drawings for roof, claddings, waterproofing, and ventilation/moisture control.
- On-site QA observations and reporting for Owner.

Randolph Air Force Base Fine Arts Center – San Antonio, Texas

Building Enclosure Forensic Evaluation

- Post-construction design review, evaluation, and targeted performance testing of exterior cladding and roofing system to diagnose continued water infiltration issues.
- Reporting and repair consultation to address findings of evaluation.

St. Andrews at Plum Creek - Castle Rock, Colorado

Forensic Evaluation, Rehabilitation Design, and Project Management

- Forensic evaluation and specialized performance testing to determine failures of fenestration systems, roofing, and exterior claddings.
- Construction document and design specification preparation for site wide cladding and ventilation rehabilitation project.
- Project management on behalf of Owner.
- On-site QA observations for purposes of verification with construction documents, details, and specifications.

Fort Bliss Troop Medical Center – El Paso, Texas

Building Enclosure and Air Barrier Consulting

- Technical peer review of design-build construction drawings for building enclosure systems.
- Air barrier system and testing consulting services to the design-build project team per the new USACE requirements.

PROFESSIONAL AFFILIATIONS

American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE)
 American Society of Civil Engineers (ASCE)
 Building Enclosure Council (BEC), Minnesota Chapter
 Exterior Design Institute (EDI)
 National Institute of Building Sciences (NIBS)
 Society of American Military Engineers (SAME)
 Roof Consultants Institute (RCI)



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Building Science Group
QUALIFICATIONS