

Richard C. Ziegler | Senior Associate



EDUCATION

- Juniata College
 - Bachelor of Science, Engineering Physics, 2005

PRACTICE AREAS

- Building Science
- Peer Review
- Repair and Rehabilitation Design
- Facade Assessment
- Forensic Investigation
- Roofing and Waterproofing
- Building Enclosure Commissioning

REGISTRATIONS

- Professional Engineer in AZ, CO, TX, and UT
- Registered Roof Consultant (RRC)
- Registered Roof Observer (RRO)

PROFESSIONAL AFFILIATIONS

- American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE)
- International Institute of Building Enclosure Consultants (IIBEC)

CONTACT

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EXPERIENCE

Rick Ziegler is a building enclosure consultant with over a decade of broad-based experience in design, construction, and rehabilitation of existing and new buildings. Mr. Ziegler has designed and consulted on projects with unitized and stick-built curtain wall, windows, roofing, waterproofing, air/water barriers, and claddings including masonry, metal panels, stucco, EIFS, and stone. His projects include new construction consulting, building enclosure commissioning, forensic investigations, and repair design. Mr. Ziegler has worked with institutional owners to develop performance standards and the associated building enclosure commissioning process to verify the owner's project requirements.

REPRESENTATIVE PROJECTS

Building Science

- Children's Wisconsin Northwest Addition - Milwaukee, WI: Review of metal panel cladding attachments for thermal performance and thermal calculations
- Petty Elementary School - Taft, TX: Hygrothermal evaluation of closed cell spray polyurethane foam impact on moisture performance of concrete floor slab over a crawlspace

Peer Review

- Maple Terrace Residential Tower and Office Tower Expansion - Dallas, TX: Review of stone cladding, precast, window replacements, curtain wall, and roofing/waterproofing design
- Kirkwood Oaks - Southlake, TX: Peer review of design documents including interface between the new and existing building
- O'Hare International Airport Stinger Gate - IL: Review of enclosure systems including the curtain wall, roofing, and interface with the existing building

Facade Assessment

- McKesson Corporation Headquarters - Irving, TX: Assessment and testing of exterior wall assemblies including precast and window wall
- Mercy Tower West - Fort Smith, AR: Assessment of building enclosure including brick masonry veneer, storefront, and curtain wall

- Oklahoma City Community College Aquatics Center - OK: Assessment of exterior insulated metal wall and roof panels with conceptual recommendations related to rehabilitation
- Fort Worth Independent School District Administration Building - Fort Worth, TX: Assessment of cement plaster wall assemblies, roofing, and storefront windows to identify required repairs for building rehabilitation

Forensic Investigation

- Heritage Trace Retail - Fort Worth, TX: Field review and testing to identify construction defects related to the cement plaster wall assemblies
- Village Fit - Dallas, TX: Field review and testing to identify source of water intrusion with conceptual repair recommendations
- SOHO Parkway Apartments - McKinney, TX: Field review and testing of exterior wall assemblies to determine sources of water intrusion and development of conceptual repair recommendations

Roofing and Waterproofing

- SOHO Parkway Apartments - McKinney, TX: Evaluation of roof coating failures
- Montessori Academy at Onesimo Hernandez - Dallas, TX: Roof consulting related to a roof replacement project including site evaluation and design recommendations
- Christus Health Headquarters - Irving, TX: Review of design documents and provision of recommendations related to below-grade waterproofing design and specifications
- Children's Medical Center Roof Repairs - Dallas, TX - Internal review of design documents for new coating and roof repairs

Building Enclosure Commissioning

- Ohio State University, Wexner Medical Center - Columbus: Laboratory mock-up review, testing observations, and troubleshooting of unitized curtain wall system with insulating glass units and limestone panels
- Major Retail Chain, Campus Fitness Center: Development of enclosure commissioning specification and testing procedures and review of mock-up design