



EDUCATION

- The Pennsylvania State University
 - Bachelor of Architectural Engineering, 2008
 - Master of Architectural Engineering, 2008

PRACTICE AREAS

- Structural Evaluation
- Peer Review
- Facade Assessment
- Condensation and Water Entry Studies
- Roofing and Waterproofing
- Repair and Rehabilitation Design
- Litigation Consulting

REGISTRATIONS

- AWCI Certified EIFS Professional
- Certified Level I Thermographer

PROFESSIONAL AFFILIATIONS

- ASHRAE (Technical Committee 4.4, 1.12, SSPC 160)
- Association of the Wall and Ceiling industry
- Building Enclosure Council - Cleveland Chapter
- RCI, Inc.
- Sealant, Waterproofing and Restoration Institute

CONTACT

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EXPERIENCE

David Finley is involved in a wide range of structural and architectural investigations. His building envelope experience includes water infiltration testing of windows, curtain walls, masonry facades, and plaza and below-grade waterproofing as well as condensation and air leakage testing of glazed fenestrations and masonry facades. Mr. Finley's structural investigations have included concrete, masonry, steel, and wood structures.

Mr. Finley is well versed in performing hygrothermal analyses using steady and transient state techniques. Additionally, Mr. Finley is capable of analyzing window and wall systems for two dimension thermal conduction.

Mr. Finley has also assessed heaving of concrete slabs-on-grade caused by the use of expansive fill material. In addition to investigations, Mr. Finley has prepared repair documents, performed peer reviews, and performed construction observation of new and repair construction.

REPRESENTATIVE PROJECTS

Structural Evaluation

- Forest Resources Building - University Park, PA: Investigation of slab-on-grade heaving due to expansive aggregate fill
- Horace Mann Elementary School - Indiana, PA: Assessment of excessive deflection, and visual grading of historic wood framing

Peer Review

- Akron Public Schools - Akron, OH: Peer Review of multiple school additions and new school facilities
- Mercy Hospital West - Dayton, OH
- Mercy Health Headquarters - Cincinnati, OH
- Scott Hall - Pittsburgh, PA

Facade Assessment

- Graves Hall - Columbus, OH: Assessment of brick masonry cladding distress
- North High Street Office Complex - Columbus, OH, Assessment of limestone and granite cladding
- Corporate Headquarters - Cranberry Township, PA: Assessment of insulated metal panel cladding

Condensation and Water Entry Studies

- Kohl Building - Oberlin, OH: Investigation of air leakage and condensation due to vapor diffusion
- First Energy Complex - Akron, OH: Investigation of condensation with the exterior wall cavity
- Stone Oak Medical Center - San Antonio, TX: Investigation of water infiltration through curtain walls and masonry facade
- Health Center - Brunswick, OH: Investigation of wall and fenestration condensation
- Foxwoods Tanger Outlets - Mashantucket, CT: Analysis of thermal conductivity via thermal bridging of structural elements
- North Residential District Transformation - Columbus, OH: Hygrothermal Analysis of proposed exterior wall design
- Health and Wellness Center - Rootstown, OH: Investigation of water infiltration through composite metal panel cladding

Roofing and Waterproofing

- Lindner Hall - Cincinnati, OH: Investigation of water infiltration through plaza waterproofing
- Saint Sava Church - Cleveland, OH: Assessment and investigation of water infiltration through stainless steel standing seam roofing

Repair and Rehabilitation Design

- Beaver Stadium - University Park, PA: Sealant, waterproofing, and embedded railing grout repair
- Church of the Savior - Cleveland, OH: Built-in copper gutter design and granite masonry repairs
- Homewood Suites - Beachwood, OH: EIFS recladding design

Litigation Consulting

- Bethany Village Center - Dayton, OH: Investigation of distress wood veneer
- Stonebridge Condominiums - Cleveland, OH: Consultation for reported water infiltration
- High-Rise Medical Building - Cincinnati, OH: Investigation of metal panel cladding failure