

Daren S. Kneezel | Associate Principal



EDUCATION

- University of Illinois at Urbana-Champaign
 - Bachelor of Science, Architectural Studies, 2001
 - Master of Architecture, Structures Option, 2003

PRACTICE AREAS

- Stone Masonry
- Stone Cladding and Paving
- Building Envelope Assessment
- Stone Testing and Material Studies
- Coatings and Sealants
- Leakage Investigation
- Repair and Rehabilitation Design
- Construction Administration

REGISTRATIONS

- Architect in IL

PROFESSIONAL AFFILIATIONS

- ASTM International

TECHNICAL COMMITTEES

- ASTM C18 - Dimension Stone

CONTACT

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EXPERIENCE

Daren Kneezel has more than fifteen years of experience investigating deterioration and distress in exterior building facades, including facades of granite, marble, travertine, limestone, brick masonry, aluminum composite material, and glass curtain walls. He has also performed structural and finite element analyses and developed repair documents for mass wall systems and thin stone cladding on high-rise buildings and its anchorage systems.

Mr. Kneezel has performed laboratory and in-situ testing of various materials with a concentration on stone (marble, limestone, granite, slate, travertine, and composite stone panels) to evaluate structural performance and to determine compliance with project specifications and industry standards. This includes testing of materials in accordance with the standards of ASTM International. Mr. Kneezel has given professional seminars and published technical articles and papers on dimension stone testing and evaluation.

REPRESENTATIVE PROJECTS

- Water Tower Place - Chicago, IL: Survey, testing, structural analysis, and repair of thin marble panels and sealant joints
- Smithsonian National Air and Space Museum - Washington, D.C.: Material testing and evaluation of Tennessee Pink Marble and granite facade replacement materials
- Obama Presidential Library - Chicago, IL: Testing and evaluation of proposed stone cladding options and long-term durability
- 600 Travis - Houston, TX: Investigation, testing, structural analysis, and repair of thin granite cladding
- Salt Lake Temple - Salt Lake City, UT: Assessment and repair recommendations for stone masonry
- First National Center - Oklahoma City, OK: Investigation of limestone panel failure and repair design
- 980 North Michigan Avenue (One Magnificent Mile) Building - Chicago, IL: Survey and repair of thin granite veneer
- Chase Tower - Chicago, IL: Investigation of exterior granite cladding and repair design
- Washington Monument - Washington, D.C.: Investigation and repair design of earthquake-damaged marble masonry construction

- Missouri State Capitol - Jefferson City: Investigation and repair design of exterior limestone masonry facade
- Minnesota State Capitol - St. Paul: Repair design of exterior Georgia marble facade
- Harvard University, Memorial Hall - Cambridge, MA: Laboratory testing and evaluation of existing and new roofing slate
- Princeton University, Lewis Center for the Arts - Princeton, NJ: Stone design peer review and laboratory testing and evaluation of limestone
- MIT.nano Building - Cambridge, MA: Laboratory testing and evaluation of limestone
- Museum of the American Revolution - Philadelphia, PA: Stone cladding attachment design
- Republic Plaza - Denver, CO: Investigation and repair of thin granite veneer
- Regions Center - Birmingham, AL: Investigation and repair design of granite cladding
- U.S. Air Force Academy - Colorado Springs, CO: Structural analysis and repair recommendations for thin marble veneer
- 220 Central Park South - New York, NY: Laboratory testing and evaluation of limestone
- Empire State Plaza (Corning Tower) - Albany, NY: Evaluation of strength and long-term durability of marble facade
- Stone Panels, Inc. - Marble Falls, TX: Evaluation of flexural strength, bond strength, and long-term durability of aluminum/stone composite system and anchorage
- University of Michigan, Ross School of Business - Ann Arbor: Laboratory testing and evaluation of granite and sandstone
- 401 N. Michigan Avenue - Chicago, IL: Investigation and repair design of granite cladding
- Shelby Interdisciplinary Biomedical Building - Birmingham, AL: Testing, structural analysis, and repair of limestone cladding
- Holy Name Cathedral - Chicago, IL: Survey and repair of limestone cladding
- 1525 Sherman Avenue - Denver, CO: Investigation and repair design of marble cladding
- Old Main Post Office Building - Chicago, IL: Survey and repair of limestone cladding