PERSONNEL QUALIFICATIONS

Wei Lam | Associate Principal

EDUCATION

- University of Massachusetts, Amherst
  - Bachelor of Science, Civil and Environmental Engineering, 1996

PRACTICE AREAS

- Building Enclosure Commissioning
- Construction Troubleshooting
- Peer Review
- Leakage Investigation
- Repair and Rehabilitation Design
- Roofing and Waterproofing
- Windows and Curtain Walls
- Litigation Consulting

REGISTRATIONS

- Professional (Civil) Engineer in MA

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
- Building Enclosure Council (BEC)

CONTACT

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EXPERIENCE

Wei Lam is an Associate Principal with WJE in their Boston office. He brings over fifteen years of dedicated experience in building enclosure and building science consulting. Mr. Lam has managed a code-recognized construction materials testing laboratory, led building enclosure peer review for a biological safety level 4 (BSL4) laboratory facility, and investigated water penetration at a remote mission critical research facility in Kodiak, Alaska.

Mr. Lam has extensive experience focused on specifying, designing, and verifying the performance of building enclosures with respect to their control and response to environmental loads. His expertise includes the evaluation of curtain wall, fenestration, cladding, roofing, and waterproofing systems performance. Mr. Lam's practice includes consulting on new and existing buildings throughout the United States. He is responsible for leading work on a variety of building types, including major hospitals, universities, laboratories, museums, high-rise condominiums and hotels, and office building projects.

At WJE, Mr. Lam is responsible for hands-on leadership and mentoring related to building enclosure design, investigation, peer review, commissioning, performance simulation, system performance evaluation, diagnostic testing, and litigation support. Mr. Lam contributes time to research projects sponsored by ASHRAE and other industry organizations related to building enclosure material and building energy performance. He is the co-inventor and patent holder in both the United States and Europe for a preformed fenestration flashing system. Mr. Lam has published and presented on topics including curtain wall performance, masonry coating and sealer performance, whole building air leakage, building enclosure commissioning, and insulation of existing load bearing masonry structures.

REPRESENTATIVE PROJECTS

Building Enclosure Commissioning

- Maine General Medical Center - Augusta, ME: Commissioning of the building enclosure including below-grade waterproofing, curtain wall, and roofing
- Spaulding Rehabilitation Hospital - Boston, MA: Commissioning of building enclosure
- Harvard Art Museum - Cambridge, MA: Commissioning of building enclosure and testing
- Owensboro Medical Health System - Owensboro, KY: Commissioning of building enclosure and review of curtain wall laboratory testing

Peer Review

- Brigham and Women's Hospital, Mass Mental Health - Boston, MA: Building enclosure peer review
- MITRE Corporation, New Lab Building - Bedford, MA: Enclosure peer review and construction observation
- Merck & Company, K15 H Block Cell Culture Facility - Kenilworth, NJ: Peer review cladding and curtain wall design
- New Wellesley High School - Wellesley, MA: Building enclosure design peer review and construction observation

Repair and Rehabilitation Design

- LBJ Apartments - Cambridge, MA: Peer review and construction observation of high-rise apartment renovation and recladding

Construction Troubleshooting

- Community Rowing Inc., New Boathouse and Sculling Pavilion - Boston, MA: Waterproofing application

Litigation Consulting

- New Bridgewater-Raynham Regional High School - Bridgewater, MA: Investigation and support of mediation regarding limited cladding failure
- Marina Point Condominiums - Quincy, MA: Document review and opinion regarding cause and origin of water penetration and corrosion